SANYO

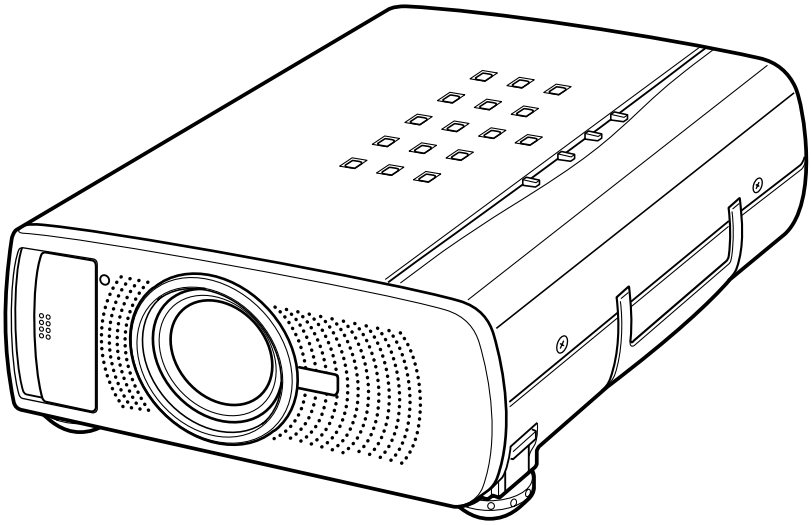
FILE NO.

SERVICE MANUAL

Multimedia Projector

Model No. PLC-XU22E
(Europe, Asia, Africa, M.E.)
PLC-XU22B
(U.K.)

Original Version



Service Instructions & Parts List

Schematic Diagrams

Printed Wiring Board Diagrams

This Service Manual is provided with the above sections. Click the sections you wish.

Service Ref. No.: **PLC-XU22E-00**
PLC-XU22B-00

Give complete “Service Ref. No.” for parts order or servicing, it is shown on the rating sheet on the projector.

PRODUCT CODE

(PB6G) PLC-XU22E: **1 122 069 06**
(PB6J) PLC-XU22B: **1 122 069 08**

REFERENCE NO. SM5110055

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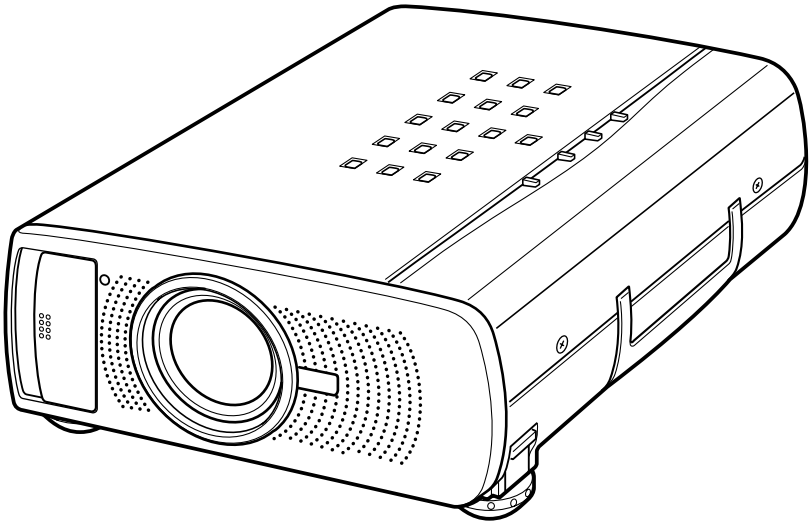

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REFERENCE NO. SM5110055

■ Contents

■ Safety instructions _____ 3
■ Specifications _____ 4
■ Adjustments after parts replacement _____ 5
■ Circuit protections _____ 6-7
Fuse _____ 6
Thermal switch _____ 7
Warning temperature and power failure protection _____ 7
■ Mechanical disassemblies _____ 8-13
■ Optical parts disassemblies _____ 14-18
■ LCD panel replacement _____ 19
■ Lamp replacement _____ 20
■ Optical adjustments _____ 21-23
● Convergence adjustment _____ 21
● Contrast adjustment _____ 22
● Integrator lens adjustment _____ 23
■ Electric adjustments _____ 24-33
● Service adjustment menu operation _____ 24
● Circuit adjustments _____ 25-30
● Service adjustment data table _____ 31-32
● Test points and locations _____ 33
■ Troubleshooting _____ 34-38
● No power _____ 34-36
● No picture _____ 37
● No sound _____ 38
■ Control port functions _____ 39-40
■ Waveforms _____ 41-43
■ Cleaning _____ 44
■ IC block diagrams _____ 45-56
■ Pins description of ICs, transistors, diodes _____ 57
■ Parts description in schematic diagram _____ 58
■ Service parts lists _____ 59-85
● Electrical parts list _____ 59-79
● Mechanical parts list _____ 80-85

■ Circuit block diagram _____ A1
■ Power supply lines _____ A2
■ Schematic diagrams _____ A3-A9
■ Printed wiring board diagrams _____ A10-A12

SAFETY PRECAUTIONS

WARNING:
The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line (⎓) in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

PRODUCT SAFETY NOTICE

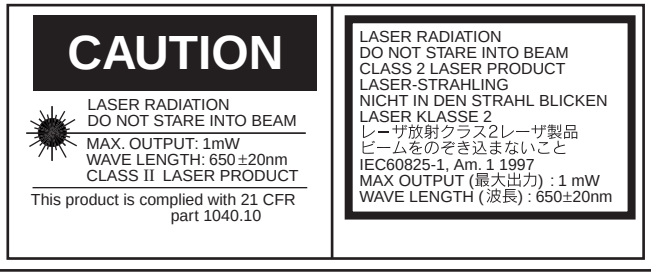
Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.
Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages(15kV - 25kV) at its starts.
Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

DO NOT ATTEMPT TO SERVICING THE REMOTE CONTROL UNIT.

Laser Beam may be leaked out when in disassemble the Unit. As the Laser Beam used in this Remote control unit is harmful to the eyes.



■ Specifications

Projector Type	Multi-media Projector
Dimensions (W x H x D)	239mm x 90mm x 323mm
Net Weight	4.0 kg
LCD Panel System	0.9” TFT Active Matrix type, 3 panels
Panel Resolution	1024 x 768 dots
Number of Pixels	2,359,296 (1024 x 768 x 3 panels)
Color System	6 color system (PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N)
Scanning Frequency	H-sync. 15 ~ 100kHz, V-sync. 50 ~ 100Hz
Projection Image Size (diagonal)	Adjustable from 30” to 300”
Horizontal Resolution	800 TV lines
Projection Lens	F1.7 ~ 2.0 lens with f33.2mm ~ 43.1mm Motor zoom and focus
Throw Distance	1.4m ~ 10.8m
Projection Lamp	150watt type
AV Input Jacks	RCA Type x 1 (Video, Audio R and L) and DIN 4 pin (S-Video) x 1
Computer Input Jack	(VGA) HDB15 Terminal x 1
Control Port Jack	DIN 8 pin x 1
Monitor Output Jack	(VGA) HDB15 Terminal x 1
Computer Audio Input Jack	Mini Jack (stereo)
Audio Output Jack	Mini Jack (stereo)
Internal Audio Amp.	1W RMS (monaural)
Built-in Speaker	1 speaker, 40mm x 30mm
Feet Adjustment	0˚ to 10˚
Voltage	AC 200 ~ 240V, 50/60Hz
Power Consumption	1.4A (Max. Ampere)
Operating Temperature	5˚C ~ 35˚C
Storage Temperature	-10˚C ~ 60˚C
Remote Control Transmitters	Wireless Remote Control with Laser Beam (Class II Laser) Max. Output 1mW/Wave length 650 ±20nm, batteries (2) AA type.

● The specifications are subject to change without notice.

■ Adjustments after Parts Replacement

● : Adjustment necessary ❍ : Check necessary

		Disassembly / Replaced Part											
		LCD Panel			Integrator lens	Polarized glass			P.F.C Board	Main Comp. Board			
		R	G	B		R	G	B		A	B	C	D
Optical Adjustments	Convergence Adjustment												
	R-Convergence adjustment	●	●										
	B-Convergence adjustment		●	●									
	Integrator Lens Adjustment				●								
	Contrast Adjustment												
	R-Contrast adjustment					●							
	G-Contrast adjustment						●						
	B-Contrast adjustment							●					
Electrical Adjustments	Output voltage adjustment								●				
	Pedestal adjustment												
	R-pedestal adjustment									●			
	G-pedestal adjustment									●			
	B-pedestal adjustment									●			
	Offset adjustment												
	R-offset adjustment									●			
	G-offset adjustment									●			
	B-offset adjustment									●			
	Video gain adjustment-[CG/MCI]												
	CG-video gain adjustment									●			
	MCI-video gain adjustment									●			
	Video gain adjustment-[AV]												
	R-video gain adjustment									●			
	G-video gain adjustment									●			
	B-video gain adjustment									●			
	Video center adjustment												
	R-video center adjustment									●	●		
	G-video center adjustment									●	●		
	B-video center adjustment									●	●		
	NRS Adjustment									●	●		
	Gamma off video adjustment												
	CG-gamma off video adjustment									●	●		
	AV-gamma off video adjustment									●	●		
	CG/MCI/AV-video adjustment-1												
	CG-video adjustment									●	●		
	R-video adjustment									●	●		
	B-video adjustment									●	●		
	CG/MCI/AV-video adjustment-2												
	CG-video adjustment									●	●		
	MCI-video adjustment									●	●		
	AV-video adjustment									●	●		
	S/H clock adjustment									●	●		
	Common center adjustment												
	R-common center adjustment	●								●	●		
	G-common center adjustment		●							●	●		
	B-common center adjustment			●						●	●		
	White balance adjustment												
	CG-white balance adjustment	❍	❍	❍						❍	❍	❍	
	MCI-white balance adjustment	❍	❍	❍						❍	❍	❍	
	AV-white balance adjustment	❍	❍	❍						❍	❍	❍	
	Black balance adjustment	❍	❍	❍						❍	❍	❍	
	White Uniformity Adjustment	❍	❍	❍						❍	❍	❍	

■ Circuit Protections

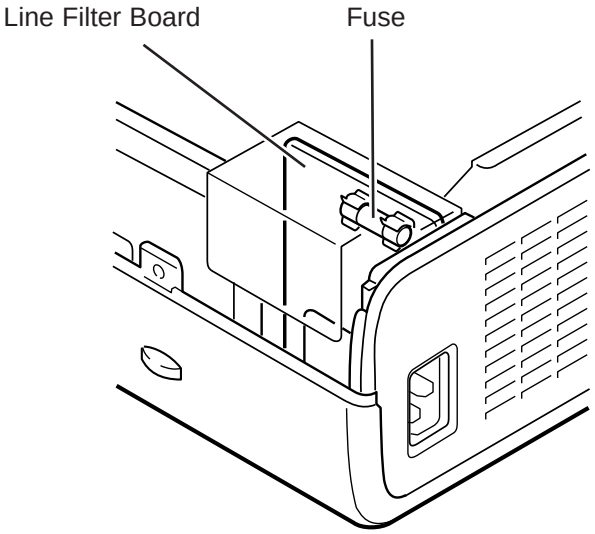
This projector is equipped with the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Fuse

The fuse is located inside of the projector. When either the LAMP indicator or the READY indicator is not illuminated, fuse may be opened. Check the fuse as following steps.

It should be used the specified fuse as follows;

Fuse Part No.: 423 022 2102
TYPE T4.0AH 250V FUSE
LITTLE FUSE INC. TYPE 215004



How to replace the fuse

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Remove the fuse from fuse holder.

To install the fuse, take reversed step in the above.

Thermal switch

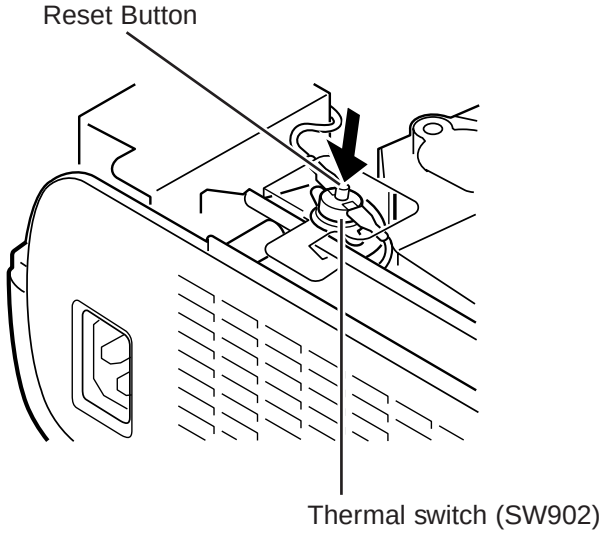
There is the thermal switch (SW902) inside of the projector to prevent the internal temperature from rising abnormally. When the internal temperature reaches near 100˚C, turn off the AC main power supply automatically.
The thermal switch is not reset to normal automatically even if the internal temperature becomes normal. Reset the thermal switch following procedure.

Check the resistance between terminals of thermal switch by using the tester. If it has high impedance, thermal switch may be in operative.

How to reset the thermal switch

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Press the reset button on the thermal switch.

CAUTION:
Before press the reset button, disconnect the AC cord from the projector.



Warning temperature and power failure protection

The TEMP WARNING indicator flashes red and the projector will automatically turn off when the internal temperature of the projector exceeds the normal temperature or when stopping cooling fans or when the internal power supply lines are failed.

Check the following possible causes and wait until stopping the TEMP WARNING indicator flashing.

Possible causes

- Air filter is clogged with dust particles. Remove dust from the air filter by following instructions in the “Air filter care and cleaning” below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 ˚C)

If the TEMP WARNING indicator still continues to flash, there may be defects on cooling fans or power supply circuits. Please check fan operation and power supply lines referring to the “Power Supply Lines Chart”.

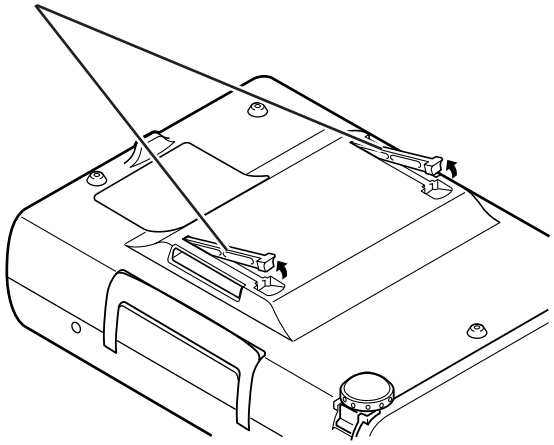
Air filter care and cleaning

The removable air filters prevents dust from accumulation on the surface of the projection lens and projection mirror. Should be the air filter become clogged with dust particles, it will reduce the cooling fan’s effectiveness and may result in internal heat build up and reduce the life of the projector.

To clean up the air filters, follow the cleaning procedure below:

1. Turn the power off, and disconnect the AC power cord from the AC outlet.
2. Turn the projector up side down and remove 2 air filters by pulling the latches of them upward.
3. Clean the air filters with brush or wash out the dust and particles.
4. Replace the air filter. Make sure that the air filters are fully inserted.

Air filters



CAUTION:

Do not operate the projector with the air filter removed. The dust is stuck on the LCD panel and the mirror, and it may spoil the fine picture image.
Do not put the small parts into the air filter intake vents. It result in the malfunction of the projector. The air filter is small parts. Take care that children don’t eat or swallow it.

RECOMMENDATION

We recommend to avoid dusty, smoky place for operating the projector. Using in dusty place may cause the picture of poor quality.
When using under the dusty or smoky conditions, dust may accumulate on the LCD panel and lens inside it, and may resultantly be projected on the screen together with the picture.
When the above symptoms are noticed, please clean up the LCD panel and lens following to the “Cleaning Method”.

■ Mechanical Disassemblies

Mechanical disassemble should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.

Caution:
The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

1. CABINET TOP REMOVAL

Remove 4 screws and pull cabinet top upward.

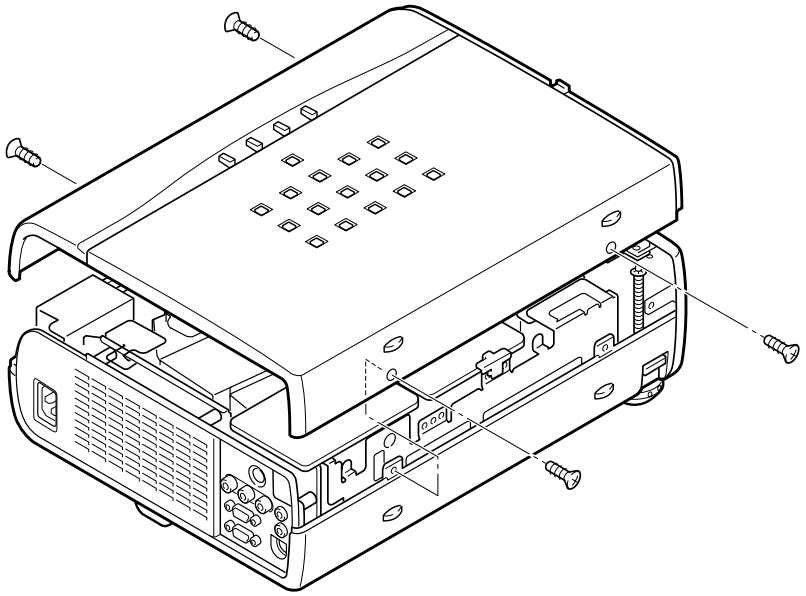


Fig.1

2. AV SUB, MAIN-B/C BOARD REMOVAL

1) Remove 3 screws (A) and take the AV SUB Board off upward.
2) Remove a screw (B) and a fixer, then disconnect the FPC cables.
3) Remove 4 screws (C) and pull the Main-B/C Boards off upward.

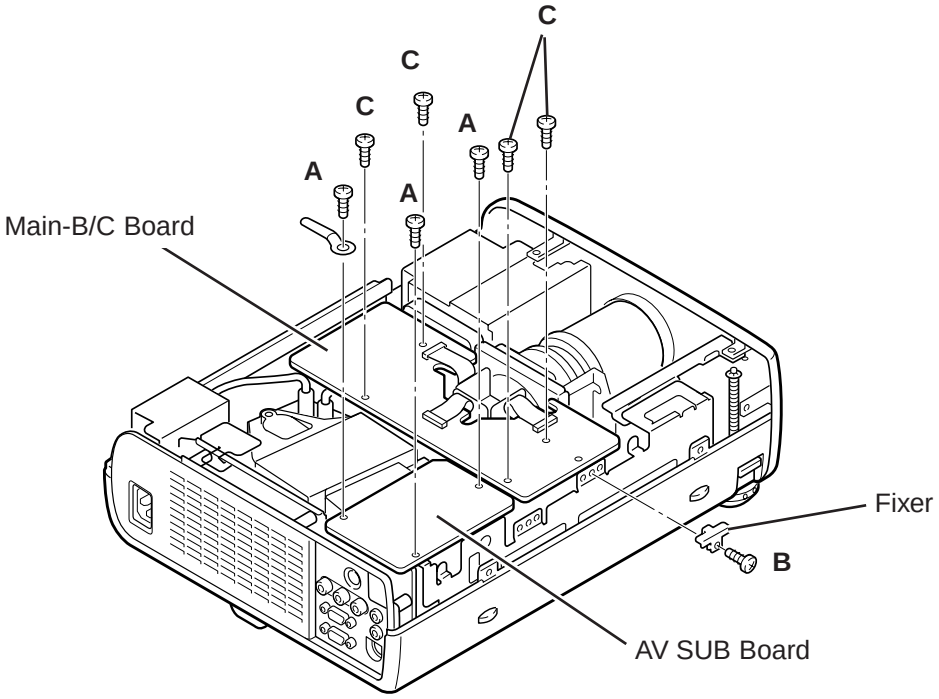


Fig.2

3. FRONT CABINET, VIEWER LED BOARD* REMOVAL

1) Remove 4 screws (A) and remove the front cabinet forward.
2) Remove a screw (B) and remove the Viewer LED Board.

* Model without the PC Card slot does not provide the Vierwer LED Board.

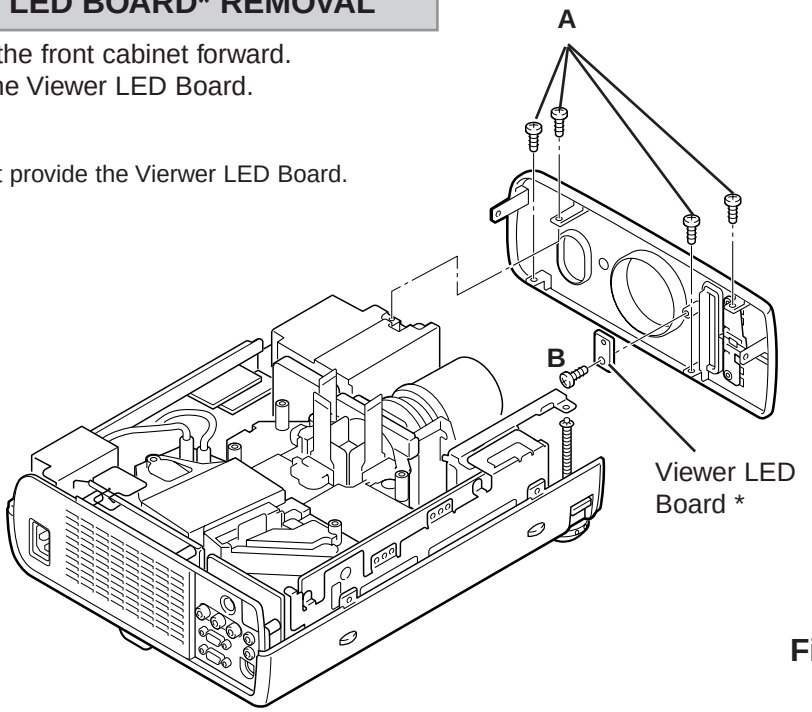


Fig.3

4. VIEWER*, MAIN-A/D BOARD REMOVAL

* Model without the PC Card slot does not provide the Vierwer Board.

1) Remove 4 screws (A) and pull the Viewer and Main-A/D Board Ass'y upward.
2) Remove 2 screws (B) and disconnect connector K1A, then take the Viewer Board Ass'y off from the Main-A/D Board Ass'y.
3) Remove 4 screws (C) and take the Viewer Unit off from the Viewer Mounting Holder.
4) Remove 2 screws (D) and remove the Main-D Board.
5) Remove 4 screws (E) and take the Main-A Board off from the Main-A Board Holder.

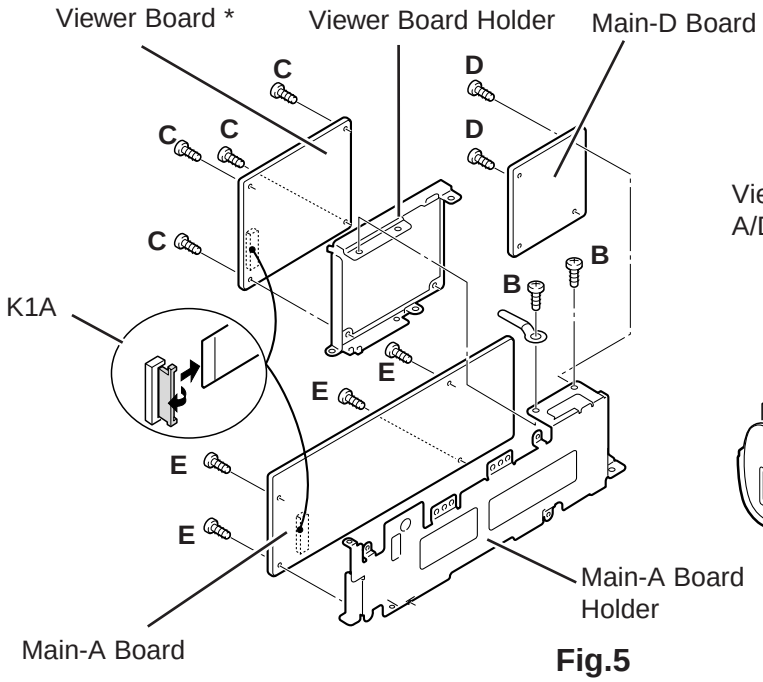


Fig.5

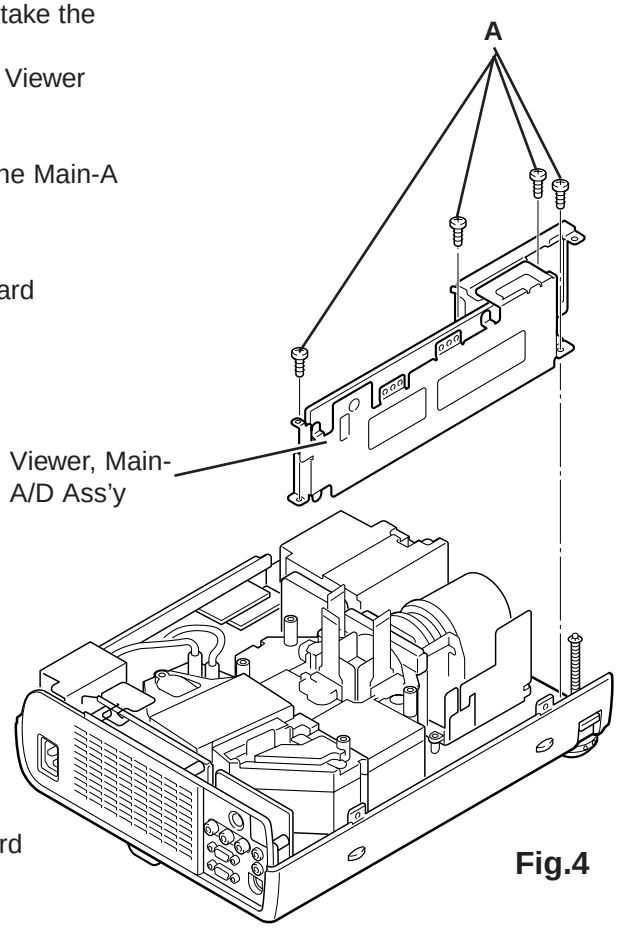


Fig.4

5. AV BOARD, REAR CABINET, FAN (FN904, FN905) REMOVAL

1) Pull the Rear Cabinet Ass'y upward.
2) Remove a screw (A) and take the spacer off.
3) Remove 2 screws (B) and remove the Thermal Switch (SW902).
4) Remove a screw (C) and remove the grounding lead.
5) Remove 4 screws (D) and remove the AV Board.
6) Remove 4 screws (E) and remove the fans (FN904, FN905).

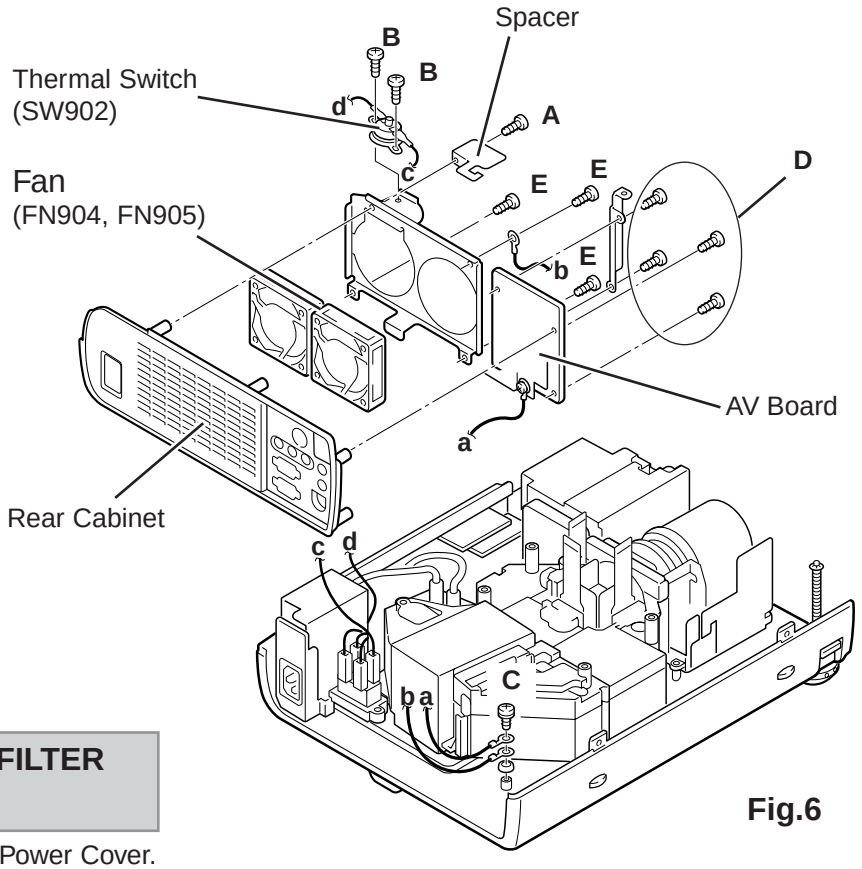


Fig.6

6. POWER COVER, FAN (FN901), FILTER BOARD REMOVAL

1) Remove 4 screws (A) and remove the Power Cover.
2) Remove 2 screws (B) and remove the Fan (FN901).
3) Remove 4 screws (C) and remove the Speaker.
4) Remove a screw (D) and remove R/C Board.
5) Remove 2 screws (E) and remove the grounding leads.
6) Remove 2 screws (F) and pull the Filter & Interlock Switch Ass'y.
7) Remove 2 screws (G) and then remove the Filter Board and the Interlock Switch Ass'y.

Note:
* When fixing the grounding lead of the Filter Board, disconnect the lamp socket (refer to **Fig.8**) first, and fix the grounding lead then connect the lamp socket.
* Dress the grounding lead (e), (f) as show in **Fig.7-2**.
* Make sure of wires color as shown in **Fig.7-2** when connecting the sockets.

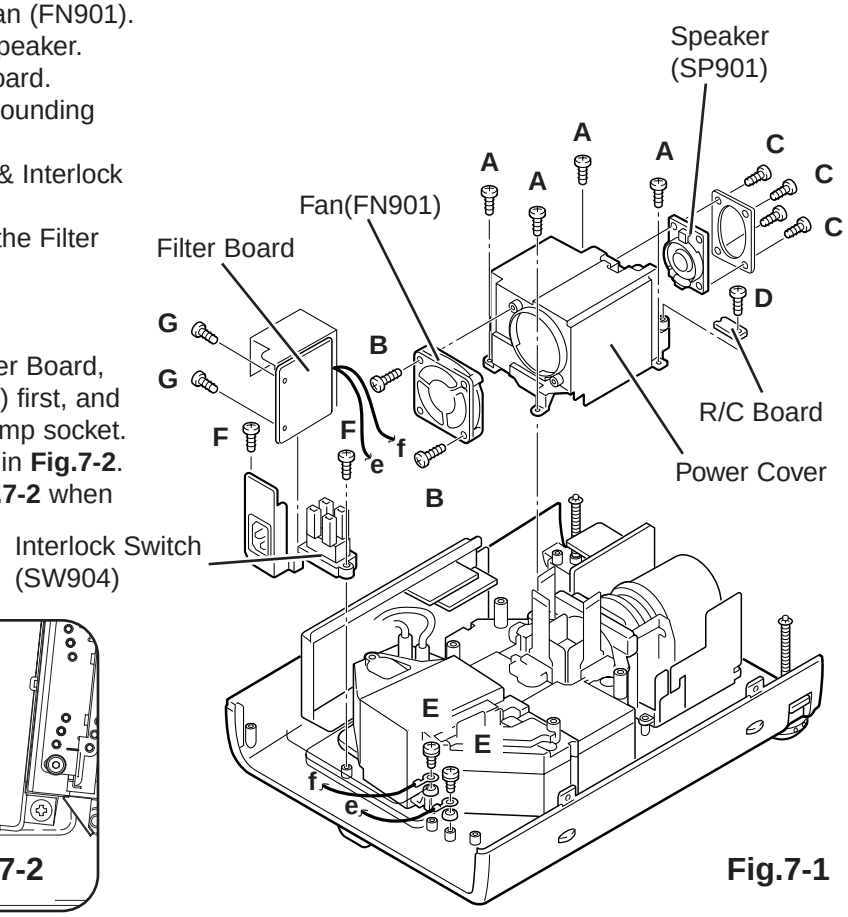


Fig.7-1

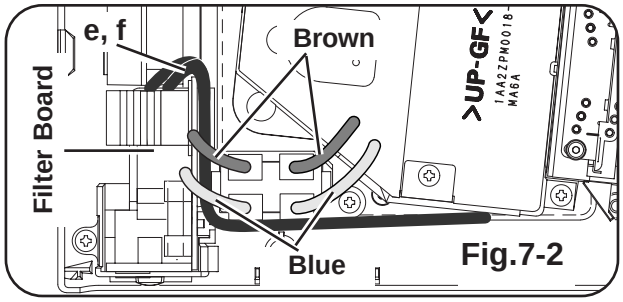


Fig.7-2

7. LAMP BALLAST UNIT REMOVAL

1) Remove 2 screws (A) and disconnect the lamp socket.
2) Remove 2 screws (B) and pull the Lamp Ballast Ass'y upward.
3) Remove 2 screws (C) and remove the Lamp Ballast Unit from the Lamp Ballast Holder.

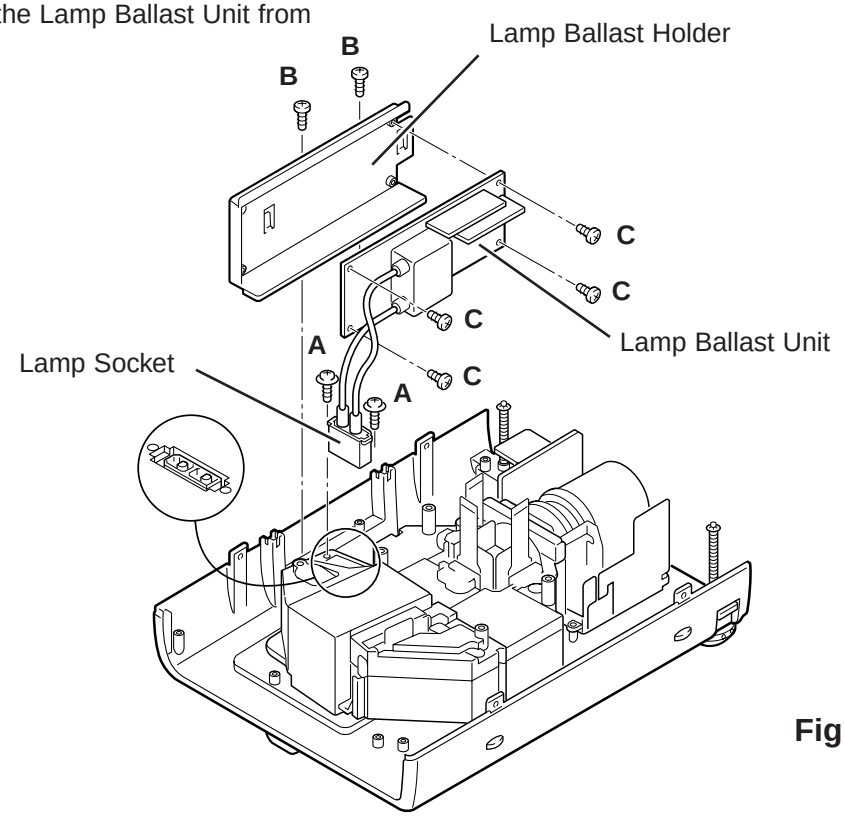


Fig.8

8. LENS, OPTICAL UNIT REMOVAL

1) Remove 5 screws and pull the Optical Unit upward.

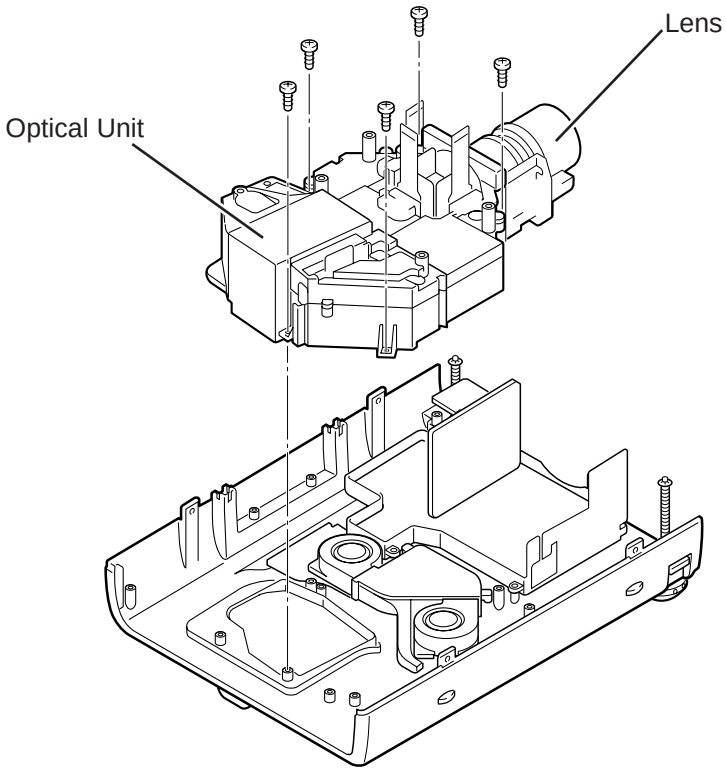


Fig.9

9. POWER, P.F. BOARD REMOVAL

1) Remove screws (A) and pull the Power Board Ass'y upward.
2) Remove 3 screws (B) and take the Power Board off from the Power Board Holder.
3) Remove the P.F. Board from the Power Board.

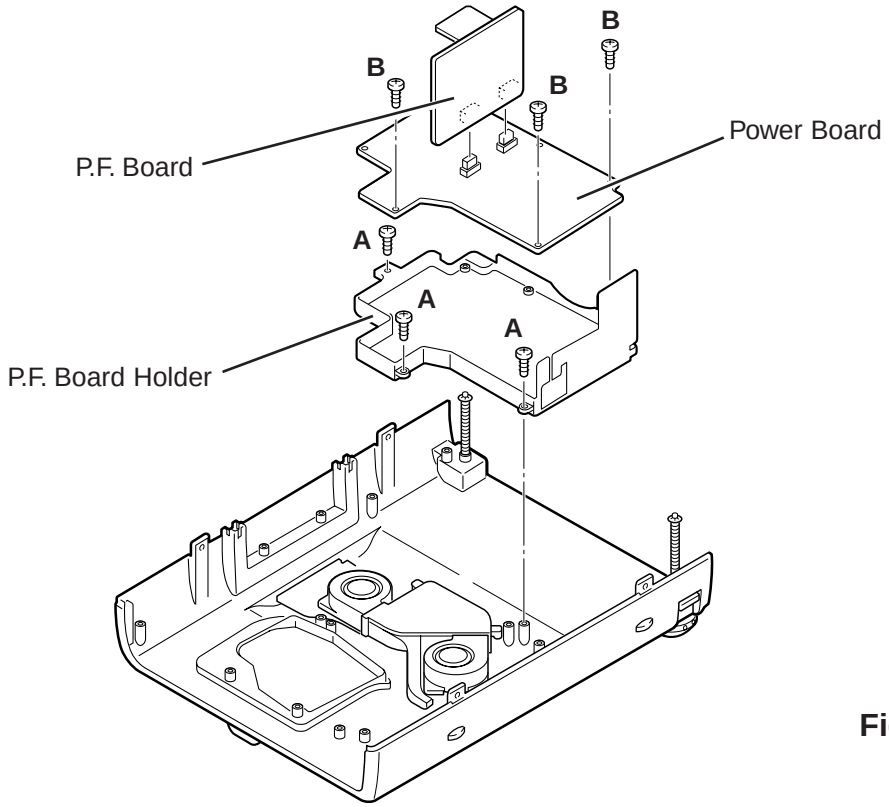


Fig.10

10. FAN (FN902, FN903) REMOVAL

1) Remove each 2 screws and take the Fans (FN902, FN903) off.

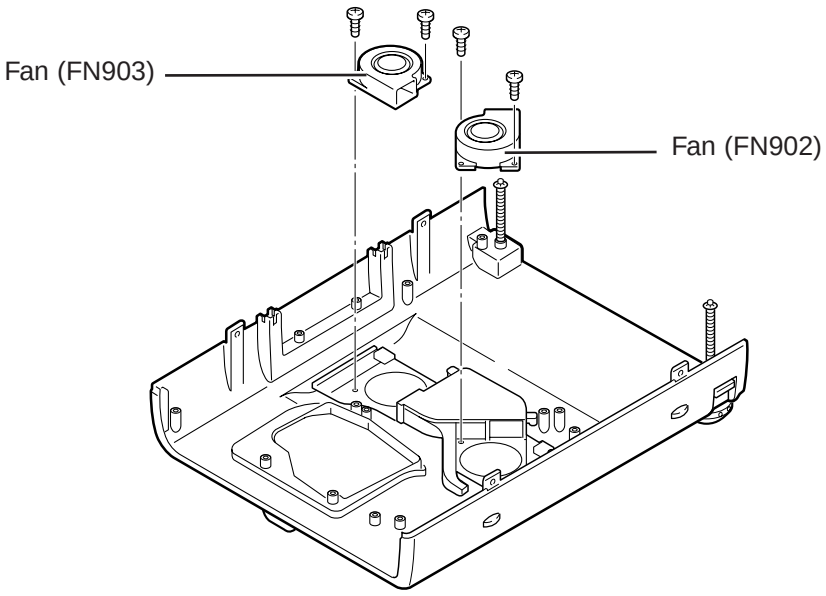


Fig.11

11. SERVICE POSITION

For servicing the AV, AV Sub, Main-A and Main-D Board, it is advisable to set up the service position for the checking and testing easily following to below steps

1) Remove the AV, AV Sub and Main-A/D Board following to steps 1~5 of "Mechanical Disassemblies".
   * Should be remove the Main-A Board Holder and Viewer Holder.
2) Mount the AV, AV Sub, and Main-A/D Board to the Main-B Board.
   * Not necessary to connect the Viewer Board.

Note:
In the mounting, make sure of the mounting direction of connectors.

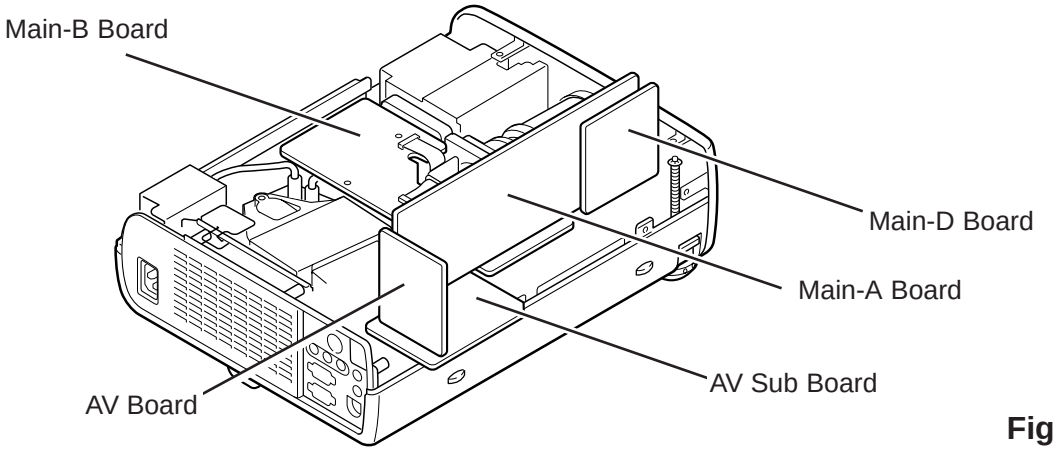


Fig.12

12. LEAD WIRE DRESSING

Make sure to dress the lead wires as follows when assembling the chassis and cabinets

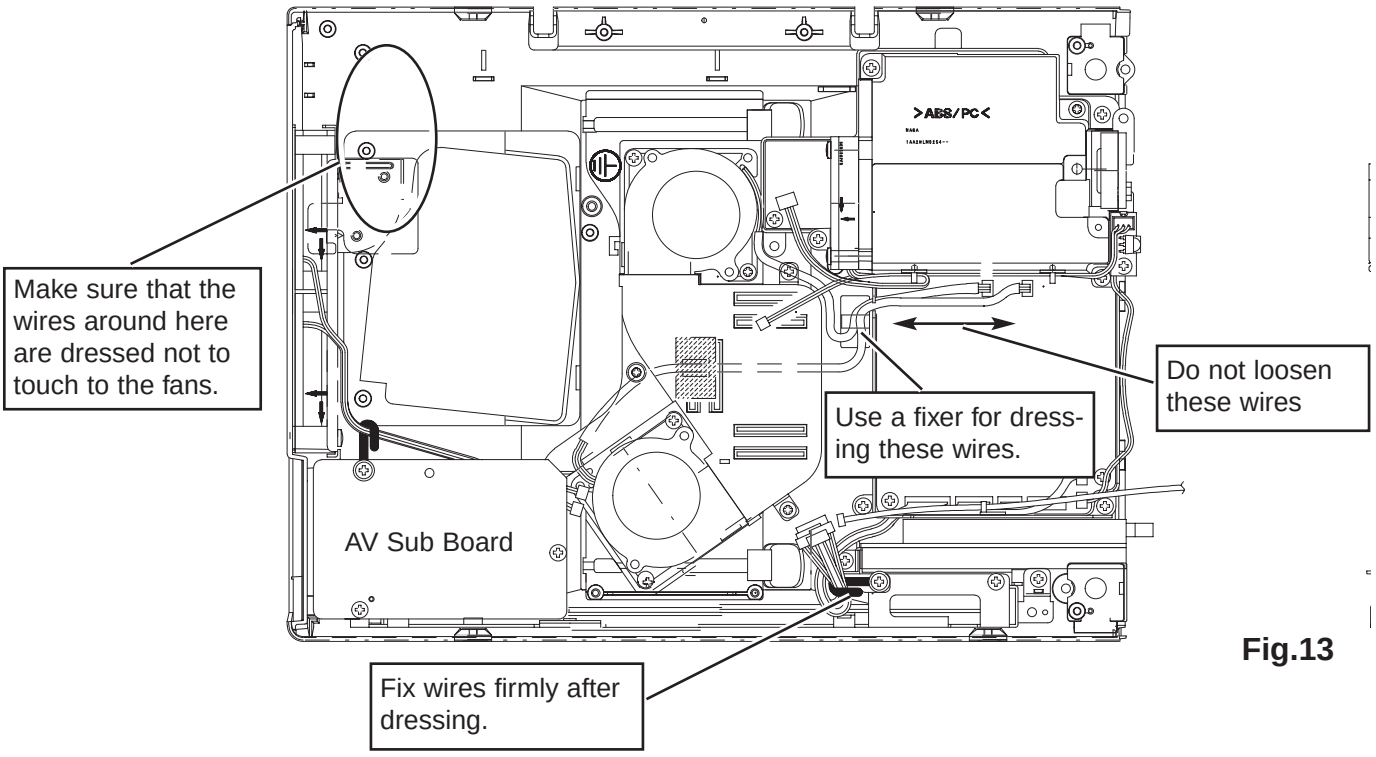


Fig.13

■ Optical Parts Disassemblies

Remove the Cabinet Top , AV Sub, Main-B/C Board following to the “Mechanical Disassemblies”, before proceeding these disassemblies.

1. PROJECTION LENS REMOVAL

1) Remove the Optical Unit/Projection Lens following to the step 8 of “Mechanical Disassemblies”.
2) Remove 4 screws and remove the Projection Lens.

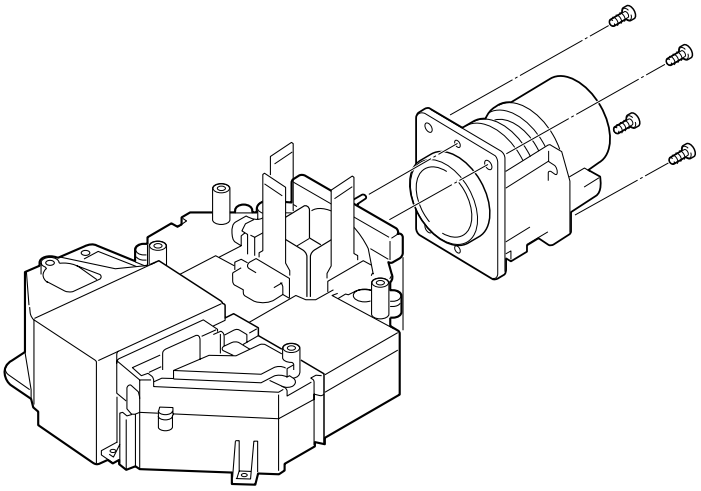
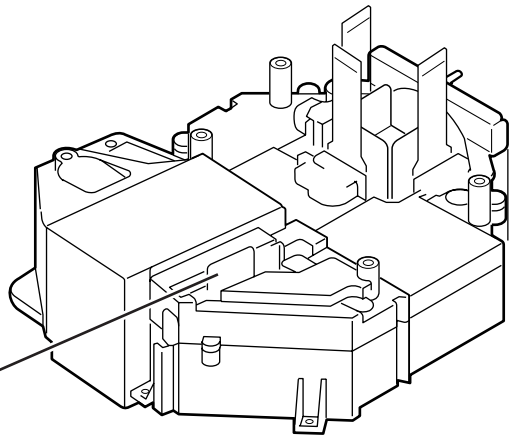


Fig.1

2. INTEGRATOR LENS-IN ASS’Y REMOVAL

Remove 2 screws (A) and pull the Integrator Lens-IN Ass’y upward.



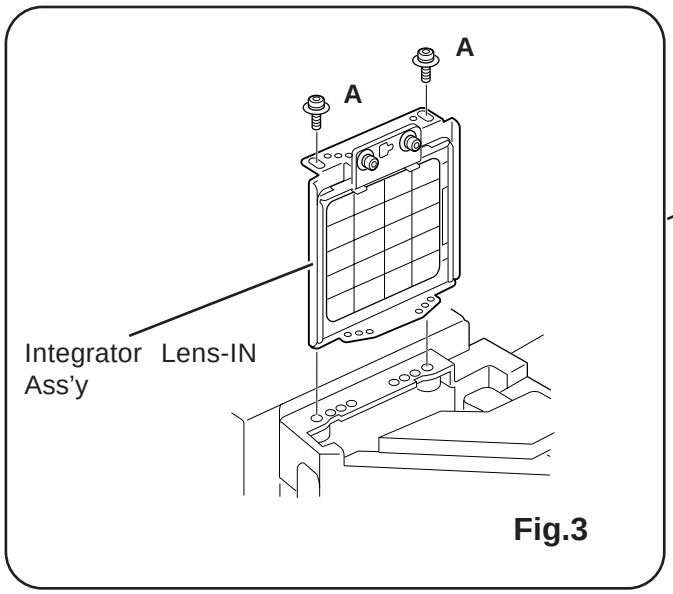


Fig.2

Fig.3

3. INTEGRATOR LENS-IN ASS'Y DISASSEMBLY

Remove 2 screws (A) and take the Integrator Lens-IN off from the lens holder.

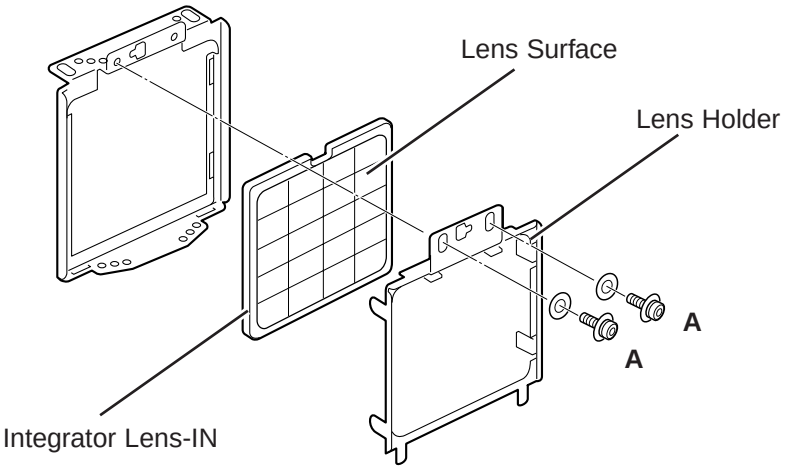


Fig.4

4. OPTICAL UNIT TOP REMOVAL

1) Remove each screw (A) and remove the Polarized Glass Holders.
2) Remove 4 screws (B) and take the Optical Unit Top off.

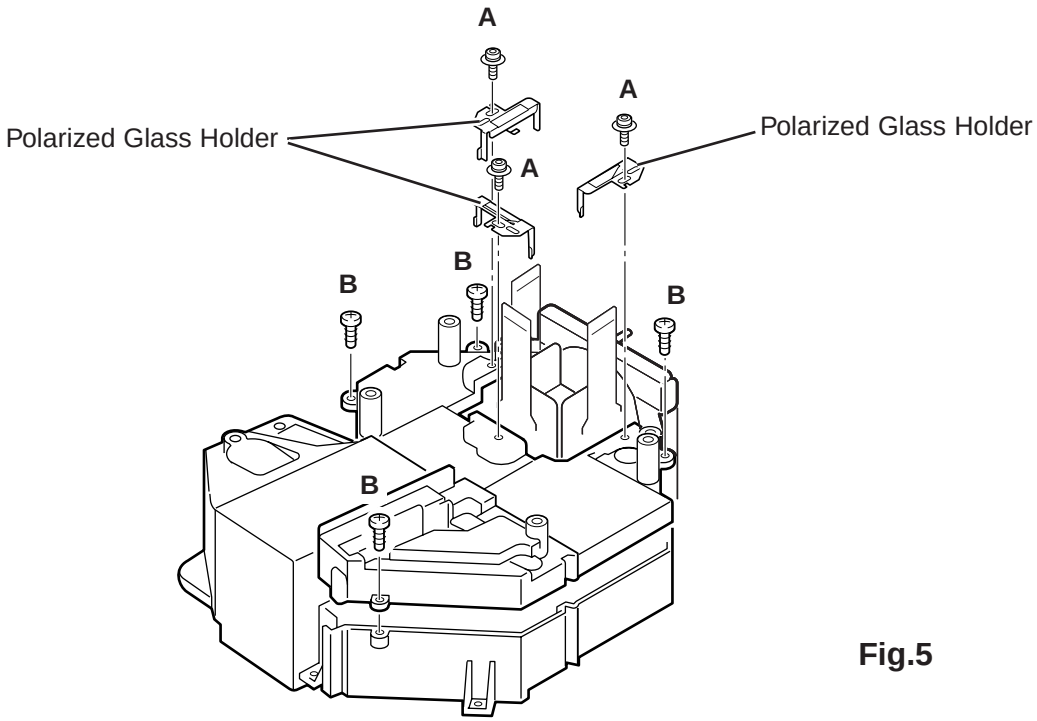


Fig.5

5. INTEGRATOR LENS-OUT ASS'Y REMOVAL

Remove 2 screws (A) and pull the Integrator Lens-OUT Ass'y downward.

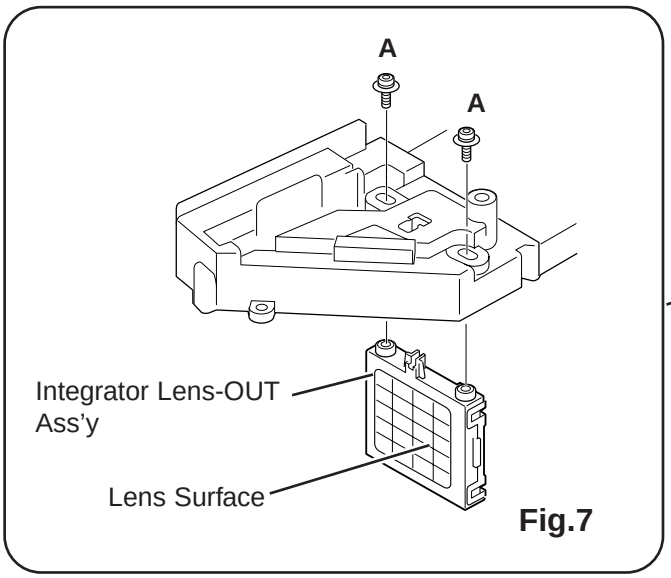


Fig.7

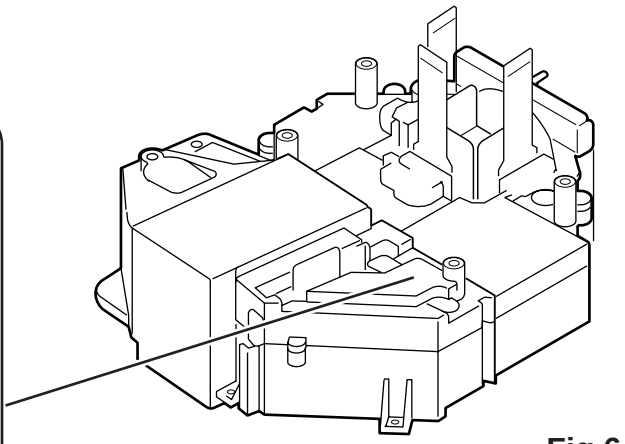


Fig.6

6. INTEGRATOR LENS-OUT ASS'Y DISASSEMBLY

Remove the Lens Holder and disassembly the Integrator Lens-OUT Ass'y.

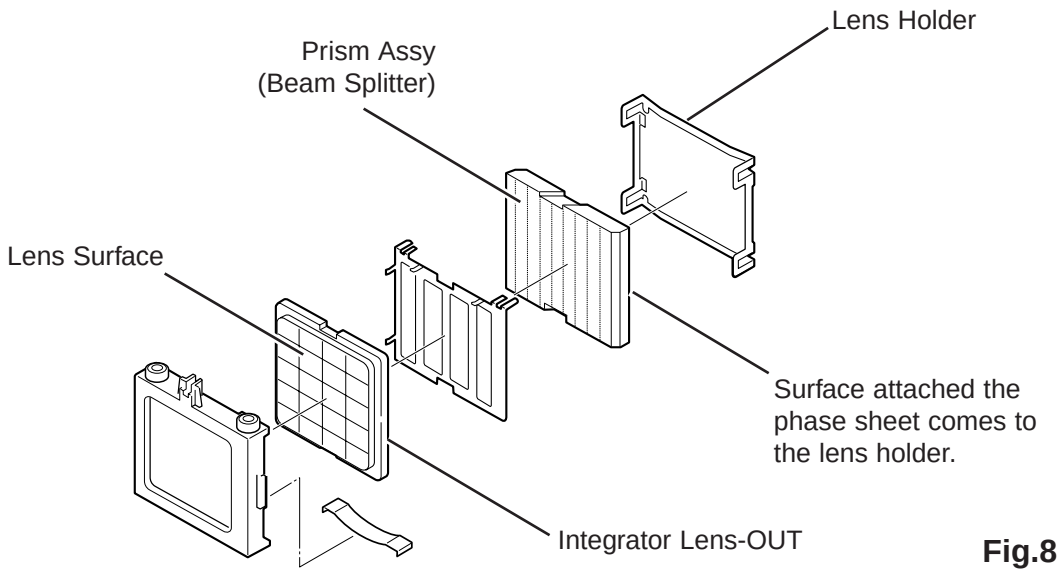


Fig.8

Parts Name and Locations

When the optical parts mounting or assembling, the parts must be mounted in the specified location and direction. Please refer to the figure below and “Mounting direction of optical parts” on next page.

No.	Part name	No.	Part name
1	Prism ass’y	10	Mirror (B)
2	Relay lens (IN)	11	Optical Filter (UV cut)
3	Relay lens (OUT)	12	Polarized glass (R-filter)
4	Condenser lens (IN)	13	Polarized glass (IN/G)
5	Condenser lens (OUT)	14	Polarized glass (IN/B)
6	Condenser lens	15	Dichroic mirror (R)
7	Condenser lens (B)	16	Dichroic mirror (G)
8	Mirror (W)		
9	Mirror (R)		

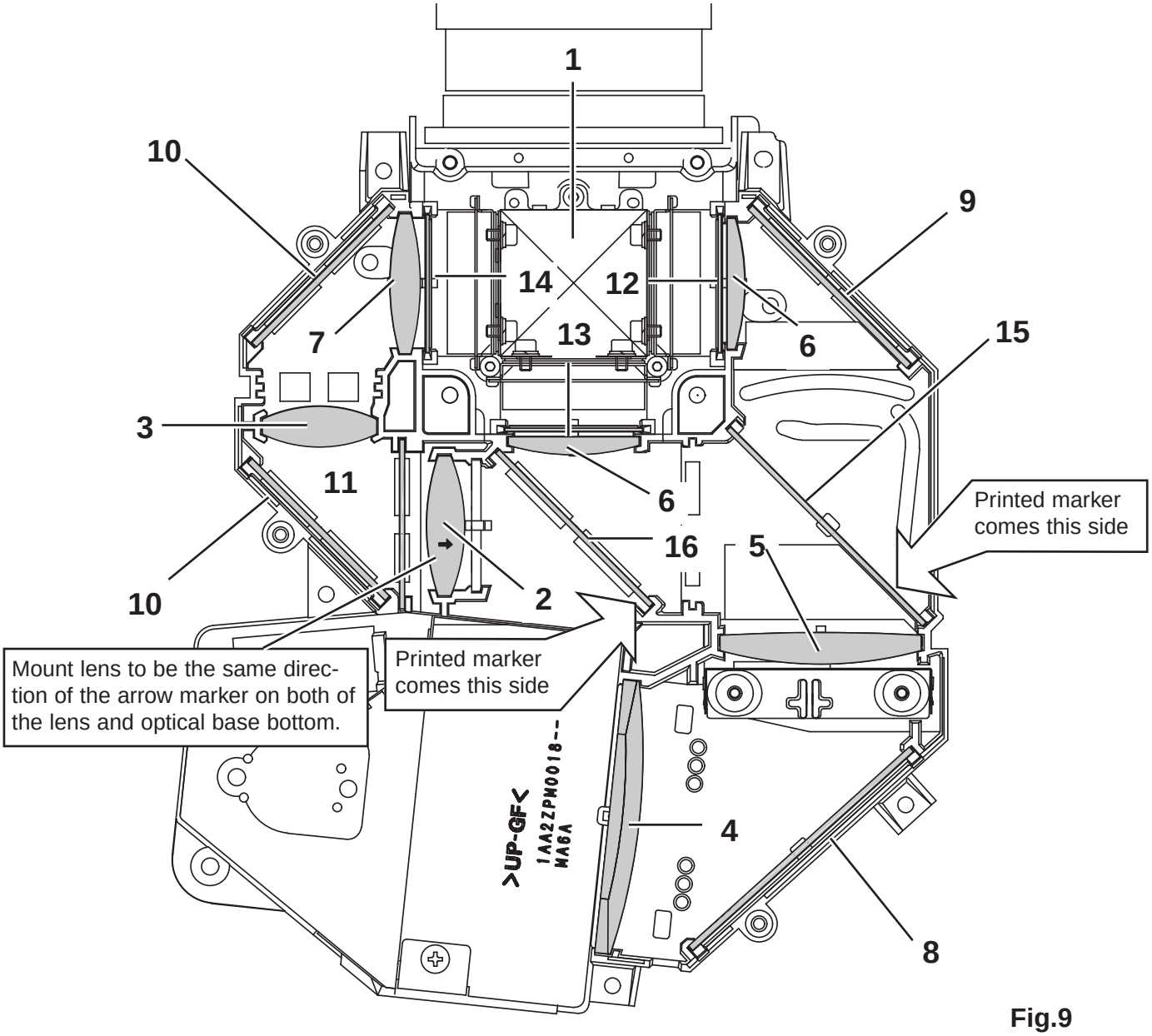


Fig.9

Mounting direction of optical parts

The optical parts must be mounted in specified direction otherwise the picture image will not reproduce correctly.

● **Mounting direction of Lens (Key No. 2, 3, 4, 5, 6, 7)**
Lens (Key No. 2) is mounted as shown in **Fig.9**.
Lens (Key No. 3, 7) have no specified mounting direction.
Lens (Key No. 4, 5, 6,) are mounted as shown in **Fig.9**.

● **Mounting direction of Mirrors (Key No. 8, 9, 10)**
Mount the mirrors as the coating surface comes inside.

● **Mounting direction of optical filter (Key No. 11)**
The optical filter has no specified mounting direction.

● **Mounting direction of polarized glasses (Key No. 2, 13, 14)**
Mount each polarized glass as the face that the polarized film is attached comes the prism ass'y.

● **Mounting direction of dichroic mirror (Key No. 15,16)**
dichroic mirrors are mounted as shown in **Fig.9**.

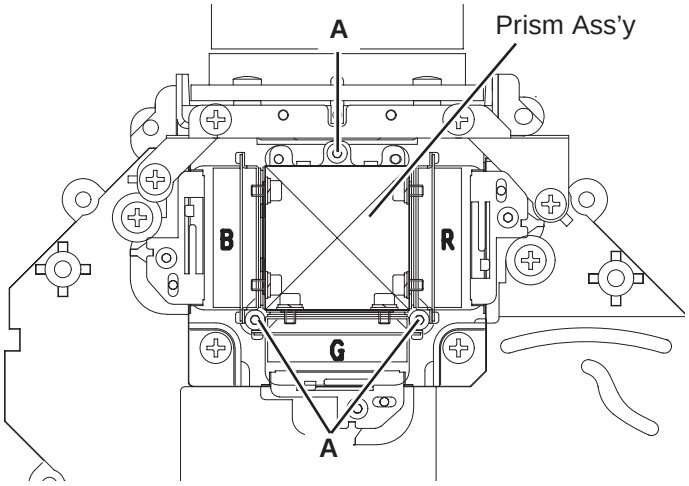
■ LCD Panel Replacement

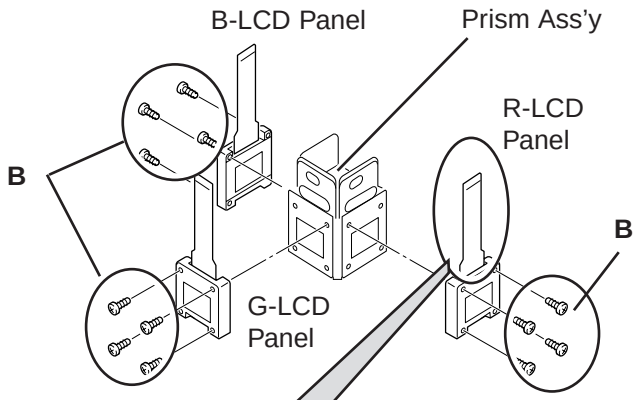
● LCD PANEL REMOVAL

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Remove 3 screws (A) by using 2.0mm hex driver, and then pull the prism/panel ass’y out from the optical base.
3. Remove 4 screws (B) to take off the LCD panel from the prism/panel ass’y.

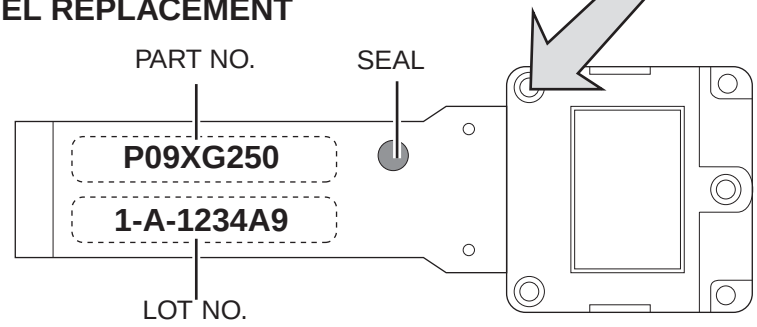
When the LCD panel is replaced, it is required to re-adjust the white balance, convergence and common center adjustments, and white uniformity adjustment if required. (Refer to the Optical and Electrical adjustments.)

Caution: Do not remove 3 panels (R,G,B) at the same time as it is necessary the standard panel for adjustment. Do not fasten the screws with excessive force when mounting the LCD panel, otherwise focus adjustment may be shifted.





● NOTE ON LCD PANEL REPLACEMENT



When replacing the LCD panel, confirm the indication of the LCD panel, then replace the correct LCD panel. Select either combination (1) or (2) when in combine the R, G and B LCD panel.
There is no combination to be used except them.

COMBINATION-(1)

	SEAL	PART NO.	SERVICE PART NO.
R-LCD PANEL	RED SEAL	P09XG260	645 039 2986
G-LCD PANEL	NO SEAL	P09XG250	645 039 2979
B-LCD PANEL	BLUE SEAL	P09XG260	645 039 2993

COMBINATION-(2)

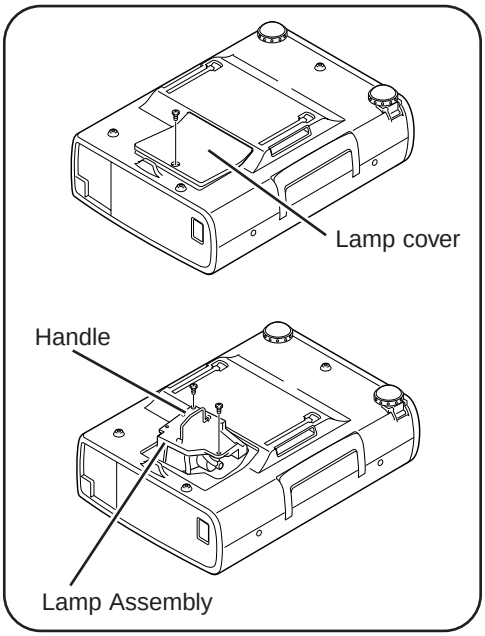
	SEAL	PART NO.	SERVICE PART NO.
R-LCD PANEL	RED SEAL	P09XG250	645 039 2955
G-LCD PANEL	NO SEAL	P09XG260	645 039 2948
B-LCD PANEL	BLUE SEAL	P09XG250	645 039 2962

■ Lamp Replacement

WARNING:

Service Parts No.: 610 280 6939
Description: Lamp Assy (POA-LMP21J)

- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.



Procedure

1. Turn off the projector and disconnect the AC cord,. Allow the projector to cool for at lease 45 minutes.
2. Remove a screw with a screwdriver and remove the lamp cover.
3. Remove 2 screws and pull out the lamp assembly by grasping the handle.
4. Replace the lamp assembly securely and tighten 2 screws.
5. Place the lamp cover and tighten a screw.
6. Connect the AC cord to the projector and turn on.

7. Reset the lamp replacement monitor timer, see below explanation.

Note:

- Do not reset the LAMP REPLACEMENT MONITOR TIMER, except after the lamp is replaced.
- The projector can not be turned-on with the lamp cover removed, because when the lamp cover is removed, the interlock switch is also released to switch off the mains power for safety.

How to reset the lamp replacement monitor timer

1. Turn the projector on. Press the **MENU** button on the projector and the On-Screen menu will appear. Select setting menu and select “Lamp age” on the setting menu of menu bar.
2. “Lamp replace monitor Reset?” is displayed for confirmation.Select “Yes” to reset the lamp replace timer.

Please refer to the owners manual for further information.

Recommendation

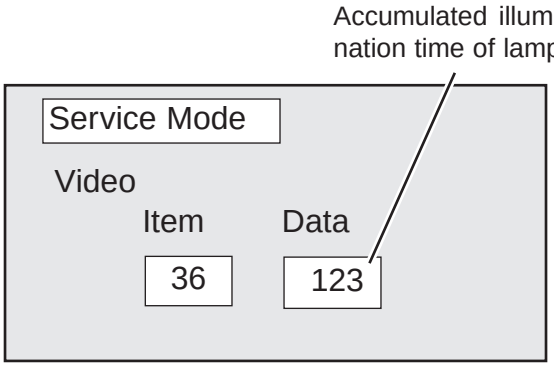
Should the air filter become clogged with dust particles, it will reduce the cooling fan’s effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced.
Refer to “Air Filter Cleaning”.

How to check the lamp replace monitor time

The LAMP REPLACEMENT indicator will illuminate when the accumulated illumination time of the lamp reaches 1000 hours. This is to indicate that lamp replacement is necessary.

You can check the accumulated illumination time of the lamp by following procedure.

1. Press and hold the pointer ▲ on the projector for more than 20 seconds.
2. The projector enters to the service mode and the accumulated time is displayed in the Data column with hours unit. For example, when “123” is displayed, the accumulated illumination time of the lamp is 123 hours. This will disappear in 5 seconds.



■ Optical Adjustments

CONVERGENCE ADJUSTMENT

For convergence adjustment, use Green as the reference standard. Align Red and Blue with Green by adjusting the position and angle of the Red and Blue LCD panels. Screws “A”, “B”, “C” (**Fig.1**) are for convergence adjustment.

[Before adjustment]

- Make sure each Red, Green and Blue LCD panel unit has been correctly installed.
- Input a grid pattern signal.
- Adjustment requires a 2.0mm hex wrench. Remove cabinet top following to the “Mechanical Disassemblies”.

RED/BLUE PANEL CONVERGENCE

1. Insert paper etc. in Red or Blue panel to block the red or blue light so that either green and red or green and blue lights are projected. (For example, when adjust Red panel convergence, project green and red lights, and when adjust Blue panel, project green and blue lights.)
2. Loosen 2 screws “D” (**Fig.1**) using the 2.0mm hex wrench.
3. Turning the screw “A”, align so that the Red (or Blue) horizontal lines are parallel to the Green horizontal lines (**Fig.1-a**).
4. Turning screw “B”, align the Red (or Blue) vertical lines onto the Green vertical lines (**Fig.1-b**).
5. Turning screw “C”, align the Red (or Blue) horizontal lines onto the Green horizontal lines (**Fig.1-b**).
6. By repeating steps 3 to 5, align the Red (or Blue) grid lines onto the green lines.
7. Tighten the 2 screws “D” to fix the Red (or Blue) panel unit.

[Image Movement and Screw Turning]

1. Adjustment screw “A” turns the image (**Fig.1-a**).
2. Adjustment screw “B” moves the image right and left (**Fig.1-b**).
3. Adjustment screw ”C” moves the image up and down (**Fig.1-b**).

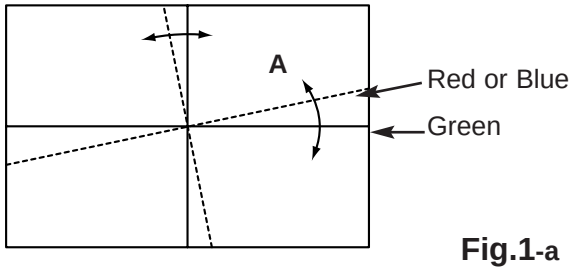


Fig.1-a

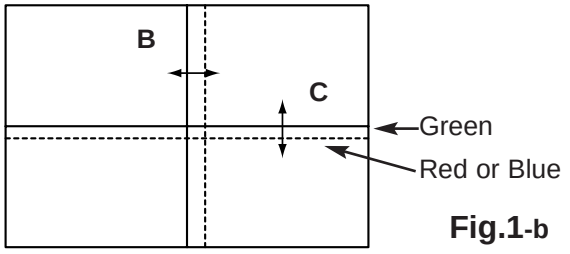


Fig.1-b

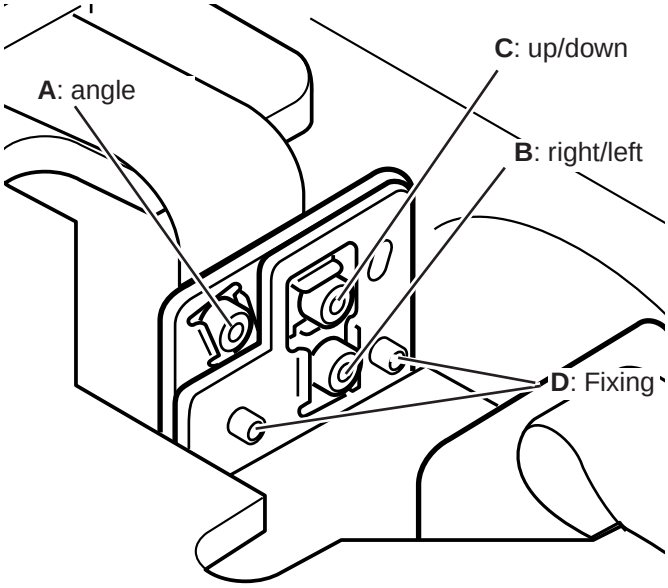


Fig.1

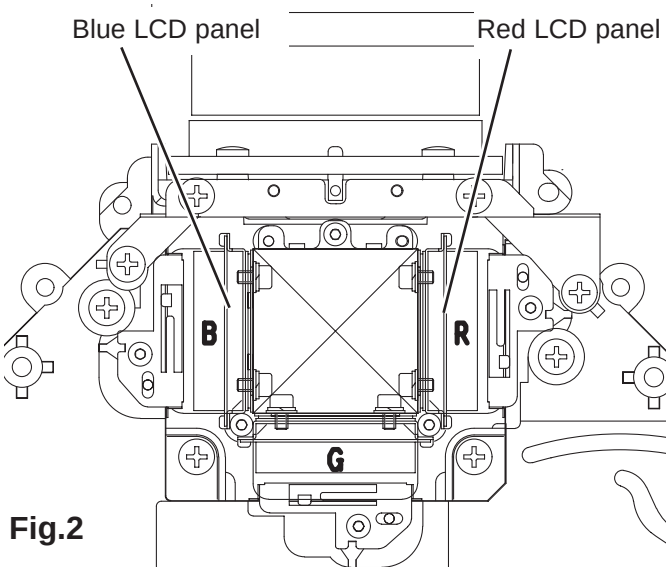


Fig.2

CONTRAST ADJUSTMENT

[Before Adjustment]
- Adjustment requires a 2.0mm hex wrench and a slot screwdriver.
- Remove cabinet cover following to step1 of “Mechanical Disassemblies”.
- Input a 100% of black raster signal.

[R/G/B-CONTRAST ADJUSTMENT]

1. Insert paper etc. in front of the LCD panels to block unnecessary lights.
   When adjusting the R-Contrast, project red light only.
   When adjusting the G-Contrast, project green light only.
   When adjusting the B-Contrast, project blue light only.
2. Loosen a screw “A” (**Fig.3/4**) on the polarized glass mounting base which you intend to adjust.
3. Turn the polarized glass mounting base by using a slot driver as shown in **Fig.3** to obtain the darkest brightness on the screen.
4. Tighten the screw “A” to fix the polarized glass mounting base.

Repeat steps 1 to 4 for remaining polarized glasses.

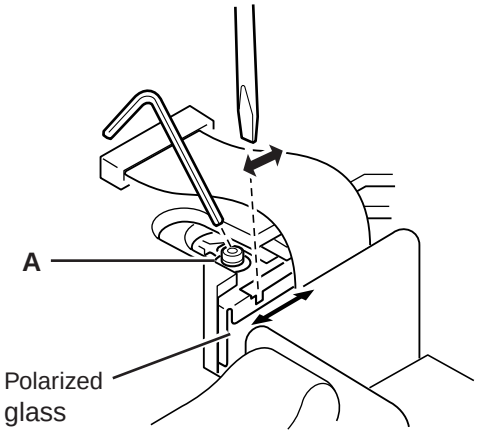


Fig.3

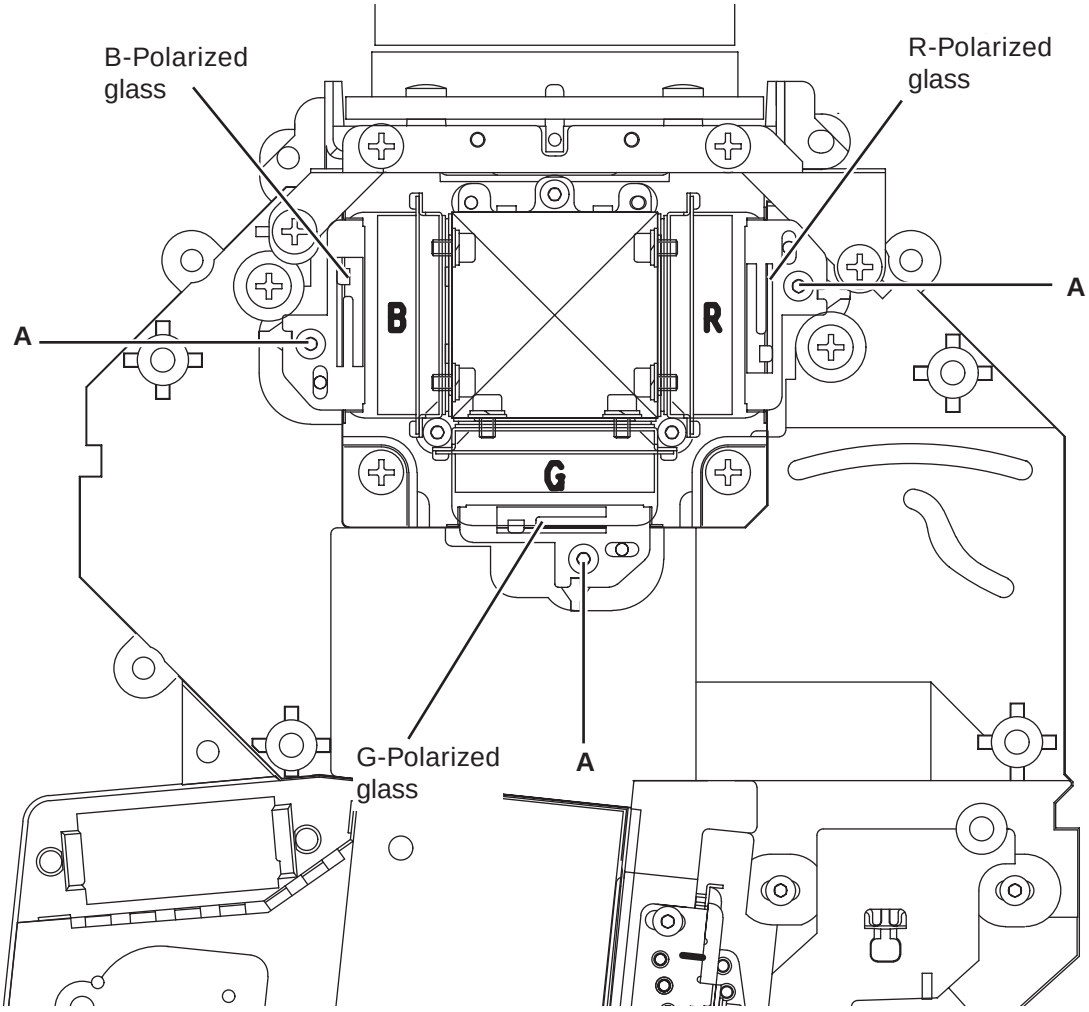


Fig.4

INTEGRATOR LENS ADJUSTMENT

[Before Adjustment]

- Adjustment requires a 2.0mm hex driver and a slot screwdriver.
- Remove the cabinet top following to “Cabinet Disassemblies”.
- Disconnect AV sub board and connectors FPC cable of LCD panels on the main unit.

[Adjustment]

1. Turn on lamp by a state of without FPC cable of LCD panels.
2. Insert a light block sheet in front of the Blue panel to block the blue light so that red and green light are projected.
3. Adjust the adjustment base of integrator lens-IN and integrator lens-OUT to make color uniformity in yellow.
   1) If the un-uniform color appears on the top or bottom of the screen as shown in **Fig.5-a**, loosen 2 screws “A” (**Fig.5-b**) with hex driver and insert a slot screwdriver into slot “B” and turn it to make color uniformity in yellow.
   2) If the un-uniform color appears on the left or right of the screen as shown in **Fig.5-c**, loosen 2 screws “C” (**Fig.5-d**) with the hex driver and insert a slot screwdriver into slot “D” and turn it to make color uniformity in yellow.
6. Tighten the 2 screws “A” or “C” to fix the integrator lens-IN and OUT unit.

Fig.5-a

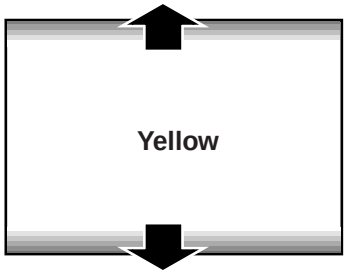
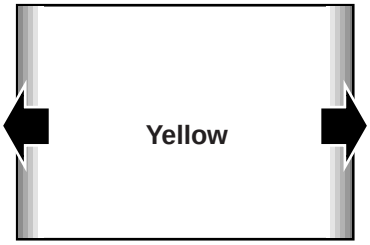
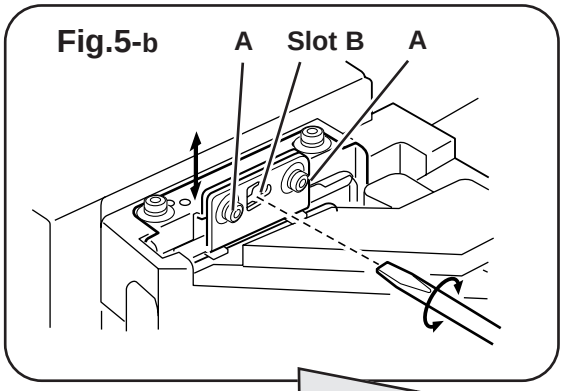
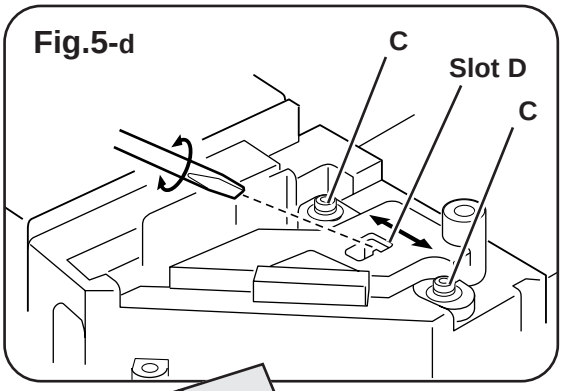


Fig.5-c







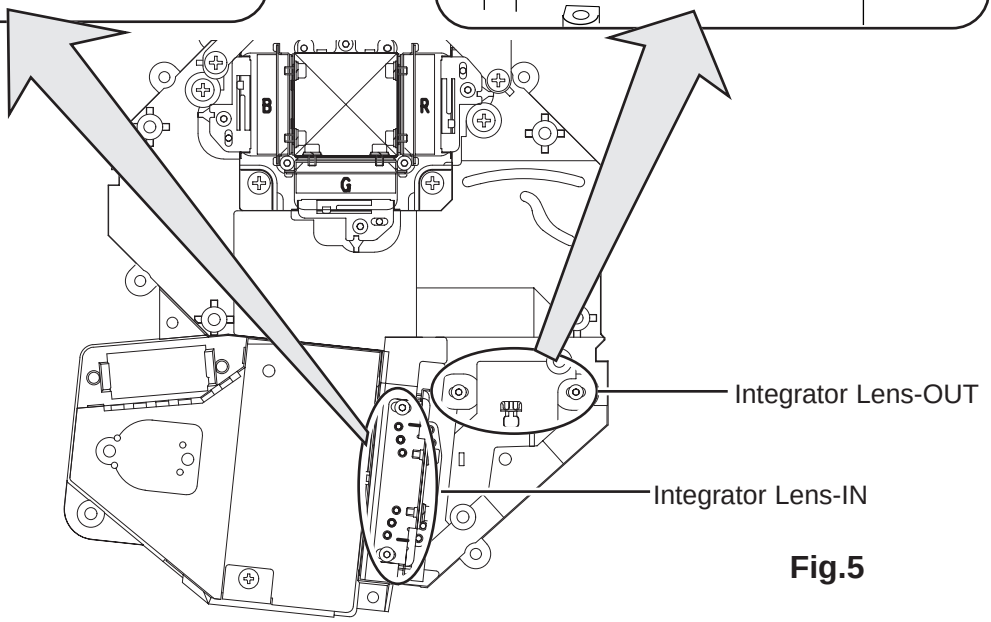


Fig.5

■ Electrical Adjustments

● Service Adjustment Menu Operation

To enter the service mode

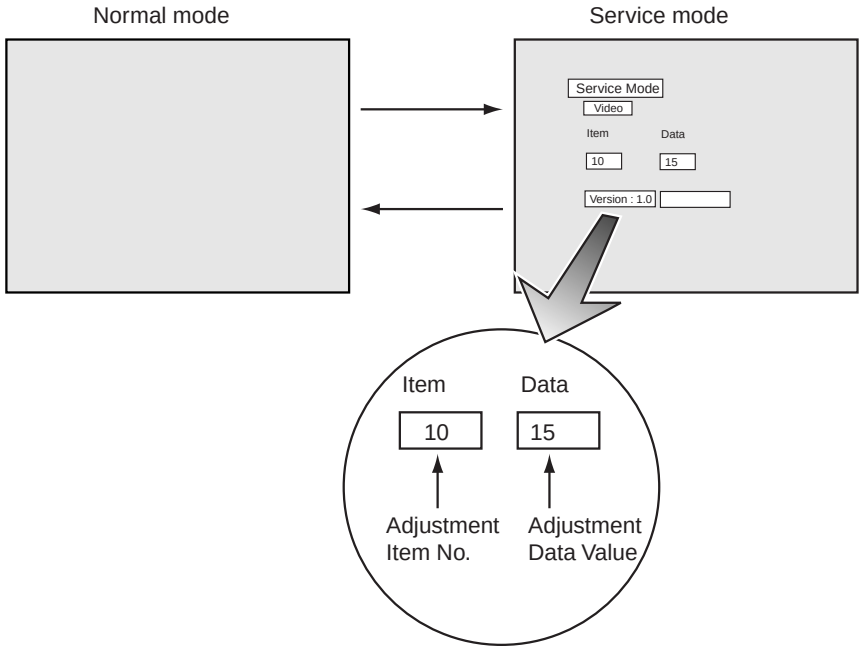
To enter the “Service Mode”, press and hold the **MENU** and **NORMAL** button on the projector for more than 3 seconds. The service mode display appears on the screen as follows.

To adjust service data

Select the adjustment item no. by pressing the pointer ▲ or ▼ button, and change the data value by pressing the **VOLUME +** or **VOLUME -** button. Refer to the “Service Adjustment Data Table” for further descroption of adjustment item no. and data value.

To exit the service mode

To exit the service mode, press any of the **POWER ON-OFF, MENU, MODE, FOCUS** or **ZOOM** buttons on the projector or remote control unit.



● Memory IC Replacement

IC302 on the main board-A stores the data for the service adjustments, and should not be replaced except for the case of defective device.
If replaced, it should be performed the re-adjustments following to the “Electrical Adjustments”.
The lamp replacement monitor timer is stored in the IC302, and it can be confirmed at the item no. 36 of service mode.
Please note that the lamp replacement monitor timer is reset when the memory IC (IC302) is replaced.
(Lamp replacement monitor time can not be set to the previous value.)

● Caution to memory IC replacement

When IC302 is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC, refer to the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
Please note that the lamp replacement monitor timer is reset.

● Caution of Main Board replacement (in the case IC302 is not defective)

When the main board-A is replaced, IC302 should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
In this case, the lamp replacement monitor timer and the white uniformity compensation data can be kept the value as before.

● Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

[Adjustment Condition]

● Input signal

Video signal .....1.0Vp-p/75Ω terminated, 16 steps gray scale or color bar pattern
Computer signal .....0.7Vp-p/75Ω terminated, 16 steps gray scale pattern
MCI signal * .....16 steps gray scale pattern from PC Card

● Picture control mode ---------- "NORMAL" mode unless otherwise noted.

Note:

* Please refer to "Service Adjustment Menu Operation" for entering to the service mode and adjusting the service data.
* It is not available the MCI mode for model which does not provide the PC Card slot.

OUTPUT VOLTAGE ADJUSTMENT

After replacing the Power Board, PF.C. Board, readjust the Output voltage adjustment as follows.

1. Connect a digital voltmeter to pins 1 (+) and 3 (-) of K6C.
2. Adjust the voltage by using VR01 as following.

AC Input	Reading
230V	370V ±2V
120V	320V ±2V

Caution:
Be sure to connect the lamp when taking this adjustment.

PEDESTAL ADJUSTMENT

Presetting

1. Receive the 16-step grey scale video signal.
2. Set to **VIDEO** mode.

[R-PEDESTAL ADJUSTMENT]

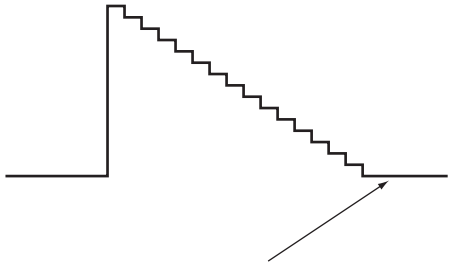
3. Connect an oscilloscope to test point "TP221R" (+) and chassis ground (-).
4. Enter to the service mode, select item no. "27" and change data value to adjust the pedestal level and black level to be same level.

[G-PEDESTAL ADJUSTMENT]

5. Connect an oscilloscope to test point "TP221G" (+) and chassis ground (-).
6. Select item no. "28" and change data value to adjust the pedestal level and black level to be same level.

[B-PEDESTAL ADJUSTMENT]

7. Connect an oscilloscope to test point "TP221B" (+) and chassis ground (-).
8. Select item no. "29" and change data value to adjust the pedestal level and black level to be same level.



OFFSET ADJUSTMENT-[CG]

1. Receive the 16-step gray scale video signal.
2. Set to **COMPUTER** mode.

[R-OFFSET ADJUSTMENT]

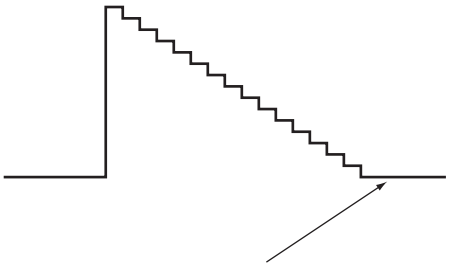
3. Connect an oscilloscope to test point “TP2211R” (+) and chassis ground (-).
4. Enter to the service mode, select item no. “45” and change data value to adjust the pedestal level and black level to be same level.

[G-OFFSET ADJUSTMENT]

5. Connect an oscilloscope to test point “TP2221G” (+) and chassis ground (-).
6. Select item no. “46” and change data value to adjust the pedestal level and black level to be same level.

[B-OFFSET ADJUSTMENT]

7. Connect an oscilloscope to test point “TP2231B” (+) and chassis ground (-).
8. Select item no. “47” and change data value to adjust the pedestal level and black level to be same level.



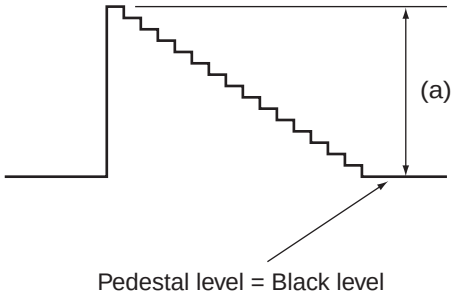
VIDEO GAIN ADJUSTMENT-[CG/MCI]

[CG-VIDEO GAIN ADJUSTMENT]

1. Receive the 16-step grey scale computer signal.
2. Set to **COMPUTER** mode.
3. Connect an oscilloscope to test point “TP2221G” (+) and chassis ground (-).
4. Enter to the service mode, select item no. “48” and change data value to adjust “a” to be 1.15 ±0.01Vp-p.

[MCI-VIDEO GAIN ADJUSTMENT] *

5. Receive the 16-step grey scale MCI signal.
6. Set to **MCI** mode.
7. Connect an oscilloscope to test point “TP2221G” (+) and chassis ground (-).
8. Enter to the service mode, select item no. “48” and change data value to adjust “a” to be 1.15 ±0.01Vp-p.



VIDEO-GAIN ADJUSTMENT-[AV]

Presetting

1. Receive the 16-step grey scale video signal.
2. Set to **VIDEO** mode.

[R-VIDEO GAIN ADJUSTMENT]

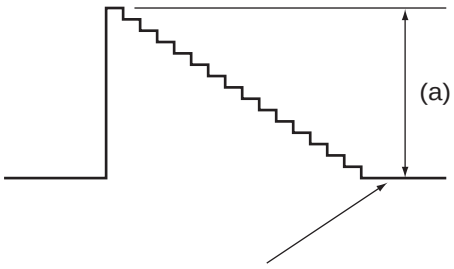
3. Connect an oscilloscope to test point “TP2211R” (+) and chassis ground (-).
4. Enter to the service mode, select item no. “49” and change data value to adjust “a” to be 1.15 ±0.02Vp-p.

[G-VIDEO GAIN ADJUSTMENT]

5. Connect an oscilloscope to test point “TP2221G” (+) and chassis ground (-).
6. Enter to the service mode, select item no. “50” and change data value to adjust “a” to be 1.15 ±0.02Vp-p.

[B-VIDEO GAIN ADJUSTMENT]

7. Connect an oscilloscope to test point “TP2231B” (+) and chassis ground (-).
8. Enter to the service mode, select item no. “51” and change data value to adjust “a” to be 1.15 ±0.02Vp-p.



VIDEO CENTER ADJUSTMENT

Presetting

1. Receive the 16-step grey scale computer signal.
2. Set to **COMPUTER** mode.

[R-VIDEO CENTER ADJUSTMENT]

3. Connect a digital voltmeter to test point “TP511” (+) and chassis ground (-).
4. Adjust voltage to be 7.30 ±0.05V by using VR501.

[G-VIDEO CENTER ADJUSTMENT]

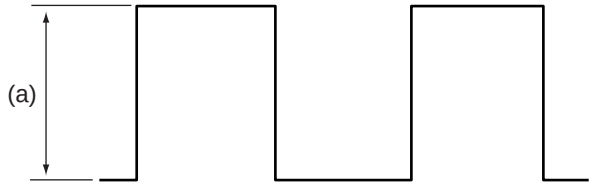
5. Connect a digital voltmeter to test point “TP512” (+) and chassis ground (-).
6. Adjust voltage to be 7.30 ±0.05V by using VR531.

[B-VIDEO CENTER ADJUSTMENT]

7. Connect a digital voltmeter to test point “TP513” (+) and chassis ground (-).
8. Adjust voltage to be 7.30 ±0.05V by using VR561.

NRS ADJUSTMENT

1. Receive the 16-step grey scale computer signal.
2. Set to **COMPUTER** mode.
3. Connect an oscilloscope to test point “TP2571” (+) and chassis ground (-).
4. Adjust “a” to be 5.5 ±0.1V by using VR3351.



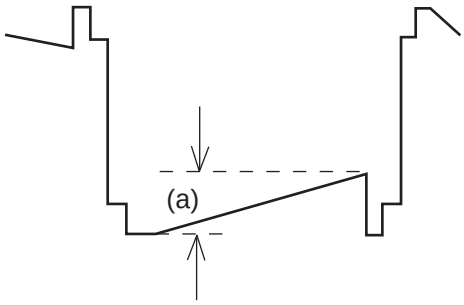
GAMMA OFF VIDEO ADJUSTMENT

[GAMMA OFF ADJUSTMENT-CG]

1. Receive the 16-step gray scale computer signal.
2. Set to **COMPUTER** mode.
3. Connect an oscilloscope to test point “TP512” (+) and chassis ground (-).
4. Enter to the service mode, select item no. “0” and change data value to adjust “a” to be 1.70 ±0.01Vp-p.

[GAMMA OFF ADJUSTMENT-AV]

5. Receive the 16-step gray scale video signal.
6. Set to **VIDEO** mode.
7. Connect an oscilloscope to test point “TP512” (+) and chassis ground (-).
8. Enter to the service mode, select item no. “0” and change data value to adjust “a” to be 1.70 ±0.01Vp-p.



CG/MCI/AV VIDEO ADJUSTMENT-1

Presetting

1. Input the 16-step gray scale video signal, MCI signal and computer signal.

[CG/MCI/AV-VIDEO ADJUSTMENT] *

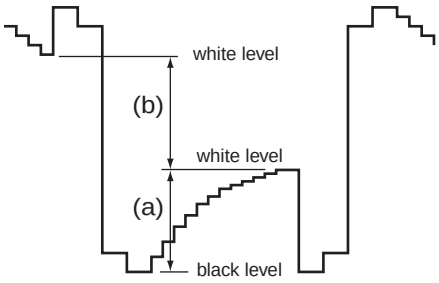
2. Connect an oscilloscope to test point “TP512” (+) and chassis ground (-).
3. Enter to the service mode, select item no. “15” and change data value to adjust “b” to be 1.0Vp-p at each **VIDEO**, **MCI** and **COMPUTER** mode.
4. Select **COMPUTER** and **MCI** mode, select item no. “12” and change data value to adjust “a” to be 4.05 ±0.01Vp-p.
5. Select **VIDEO** mode, select item no. “12” and change data value to adjust “a” to be 4.05 ±0.01Vp-p.

[R-VIDEO ADJUSTMENT]

6. Connect an oscilloscope to test point “TP511” (+) and chassis ground (-).
7. Enter to the service mode and select **COMPUTER** mode.
8. Select item no. “13” and change data value to adjust “a” to be 4.05 ±0.01Vp-p.
9. Select **VIDEO** mode and item no. “13” and change data value to adjust “a” to be 4.05 ±0.01Vp-p.

[B-VIDEO ADJUSTMENT]

10. Connect an oscilloscope to test point “TP513” (+) and chassis ground (-).
11. Enter to the service mode and select **COMPUTER** mode.
12. Select item no. “14” and change data value to adjust “a” to be 4.05 ±0.01Vp-p.
13. Select **VIDEO** mode and item no. “14” and change data value to adjust “a” to be 4.05 ±0.01Vp-p.



CG/MCI/AV VIDEO ADJUSTMENT-2

[CG-VIDEO ADJUSTMENT-2]

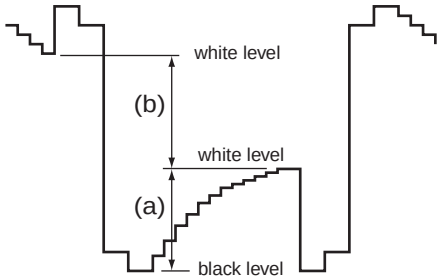
1. Receive the 16-step grey scale computer signal.
2. Set to **COMPUTER** mode.
3. Connect an oscilloscope to test point “TP512” (+) and chassis ground (-).
4. Enter to the service mode, select item no. “15” and change data value to adjust “b” to be 2.10 ±0.01Vp-p.

[MCI-VIDEO ADJUSTMENT-2] *

5. Receive the 16-step grey scale MCI signal.
6. Set to **MCI** mode.
7. Connect an oscilloscope to test point “TP512” (+) and chassis ground (-).
8. Enter to the service mode, select item no. “15” and change data value to adjust “b” to be 2.10 ±0.01Vp-p.

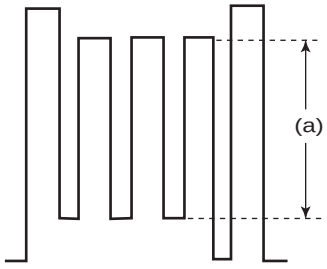
[AV-VIDEO ADJUSTMENT-2]

9. Receive the 16-step grey scale video signal.
10. Set to **VIDEO** mode.
11. Connect an oscilloscope to test point “TP512” (+) and chassis ground (-).
12. Enter to the service mode, select item no. “15” and change data value to adjust “b” to be 2.15 ±0.01Vp-p.



S/H CLOCK ADJUSTMENT

1. Receive the 16-step gray scale computer signal.
2. Set to **COMPUTER** mode.
3. Connect an oscilloscope to test point “TP512” (+) and chassis ground (-).
4. Enter to the service mode, select item no. “3” and change data value to adjust “a” to be maximum.



COMMON CENTER ADJUSTMENT

1. Receive the 16-step gray scale computer signal.
2. Set to **COMPUTER** mode.

[R-COMMON CENTER ADJUSTMENT]

3. Cover the G and B panel to block the light transit.
4. Adjust VR2502 to obtain the minimum flicker on the picture.

[G-COMMON CENTER ADJUSTMENT]

5. Cover the R and B panel to block the light transit.
6. Adjust VR2503 to obtain the minimum flicker on the picture.

[B-COMMON CENTER ADJUSTMENT]

7. Cover the G and R panel to block the light transit.
8. Adjust VR2504 to obtain the minimum flicker on the picture.

WHITE BALANCE ADJUSTMENT

[CG WHITE BALANCE ADJUSTMENT]

1. Receive the 16-step grey scale computer signal.
2. Set to **COMPUTER** mode.
3. Enter to the service mode, select item no. “16” (Red) or “17” (Blue), and change data values respectively to make a proper white balance.

[MCI WHITE BALANCE ADJUSTMENT] *

4. Receive the 16-step grey scale MCI signal.
5. Set to **MCI** mode.
6. Select item no. “16” (Red) or “17” (Blue), and change data values respectively to make a proper white balance.

[AV WHITE BALANCE ADJUSTMENT]

7. Receive the 16-step grey scale video signal.
8. Set to **VIDEO** mode.
9. Select item no. “16” (Red) or “17” (Blue), and change data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video, MCI and computer mode.

BLACK BALANCE ADJUSTMENT

[AV BLACK BALANCE ADJUSTMENT]

1. Receive the 16-step grey scale video signal.
2. Set to **VIDEO** mode.
3. Enter to the service mode, select item no. “9” (Red) or “10” (Blue), and change data values respectively to make a proper white balance at darker part of the screen.

WHITE UNIFORMITY ADJUSTMENT

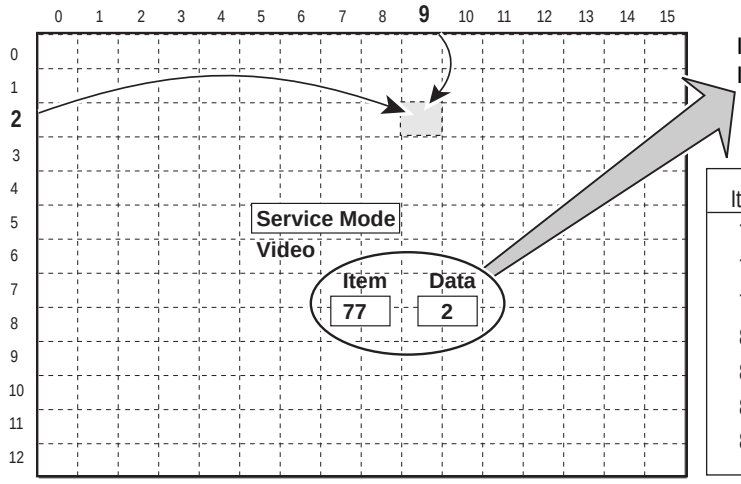
This adjustment should be carried out when existing unbalanced white uniformity on the screen or after replacing the LCD panels. (When replacing the main board-A, the memory IC, IC302 on the main board-A should be replaced with the one on previous board, so that the white uniformity adjustment may not be required because the data of white uniformity adjustment are stored in this memory IC, IC302.)

White uniformity compensation adjustment system of this model divided the screen into 13 in vertical direction and 16 in horizontal direction and specified the area by using its co-ordinate, and then adjust the RGB white balance on the specified area, refer to the figure below.
Please note that the selected area and dividing lines are not indicated on the screen. Roughly select the area you wish to adjust with vertical and horizontal address number as shown figure below.

[Before adjustment]
- Set to normal display mode.
- Confirm the white uniformity compensation mode on.
  Enter to the service mode , select item no. “83” and confirm that the data value is “186” (mode On). If the data value is “58”(mode OFF), change value to “186” by pressing the **VOLUME ▲** or **VOLUME ▼** button.
- Initialize the all of compensation data. **(This is required when the LCD panel is replaced more than 2 panels.)**
  1) Enter to the service mode, select item no. ”82” and increase the data value from “0” to “10”. When the value reaches “10”, the data value is automatically return to “0” and the initializing has been completed. The all of compensation data for RGB are to be “32”.

- Mode : Video or Computer mode
- Input Signal : White raster signal
- Picture control : Normal level

[How to adjust white uniformity]
[1] Enter to the service mode.
[2] Chose the area you wish to adjust. For example, choosing 3rd area from the top and 10th area from the left.
Select Item No. “77” (Vertical area no. selection mode) and select Data No. “2” , and select Item No. “78” (Horizontal area no. selection mode) and select Data No.”9” . The area no. starts from “0”.
[3] Adjust white balance in selected area.
Select Item No.”79” (Red), “80” (Green) or “81” (Blue), and change data value to adjust white balance.
[4] Repeat steps 2 to 3 until obtaining better white uniformity.
[5] Exit from the service mode.



Item : <77> Data : <2>
Item : <78> Data : <9>

Item	Initial Value	Range	Description
77	0	0 ~ 12	Vertical area no. selection
78	0	0 ~ 15	Horizontal area no. selection
79	32	0 ~ 63	Red white balance adjustment
80	32	0 ~ 62	Green white balance adjustment
81	32	0 ~ 62	Blue white balance adjustment
82	0	0 ~ 10	Reset of white uniformity comp. data
83	186	58 or 186	White uniformity comp. On/Off

● Service Adjustment Data Table

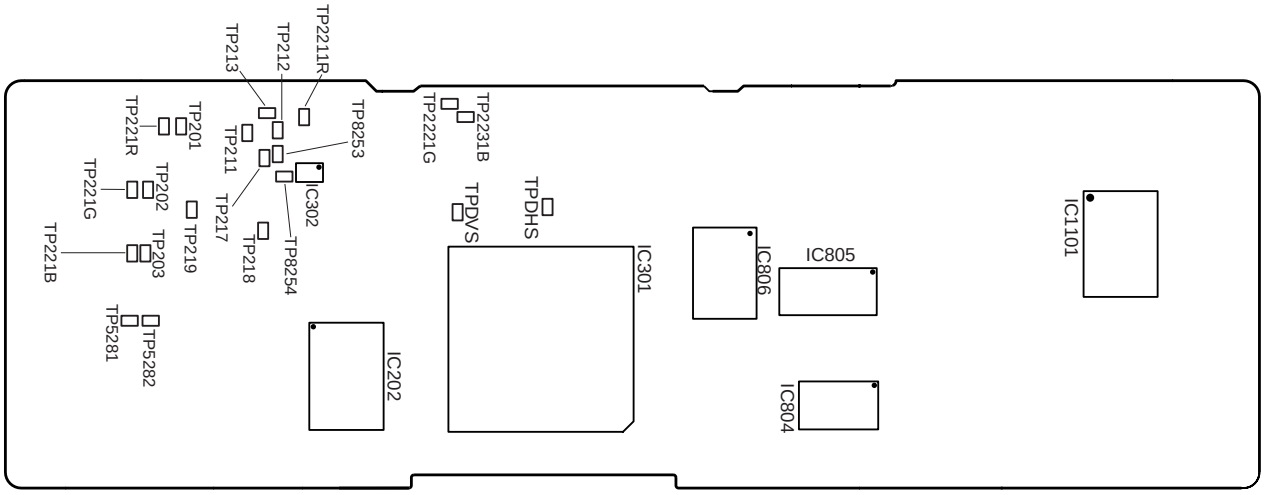
The initial value is the reference data writing to the memory IC by the CPU ROM when the memory IC replacing. The Adjustment item which is indicated with "✻" is required to readjusted in the "Electrical adjustments". Other items should be used in the initial data value.

No.	Adjustment Item	Initial Value			Range	Description
		COMPUTER	MCI	VIDEO		
0	RGB AMP (Gamma OFF) ✻	20		20	* ~ *	✻ GAMMA OFF G-VIDEO ADJUSTMENT
1	RGB AMP (Gamma ON)	20		20	* ~ *	This operates together with Gamma R/G/B Amps, so when one of the R, G, B value reaches maximum or minimum value, the up/down operation stops.
2	S&H Display Position of S/H Test Pattern	3			0 ~ 12	Display the Test Pattern
3	GAMMA DLY CNT ✻	15			0 ~ 63	✻ S/H CLOCK ADJUSTMENT
4	GAMMA G BIAS	13			0 ~ 63	
5	Not Used					
6	GAMMA R BIAS	13			0 ~ 63	
7	Not Used					
8	GAMMA B BIAS	13			0 ~ 63	
9	GAMMA R-B1P ✻	27		27	0 ~ 63	✻ BLACK BALANCE ADJUSTMENT[RED]
10	GAMMA B-B1P ✻	27		27	0 ~ 63	✻ BLACK BALANCE ADJUSTMENT[BLUE]
11	GAMMA G-B1P	27		27	0 ~ 63	
12	DAC CLAMP LEVEL(SUB BRIGHT) ✻	48	48	48	0 ~ 63	✻ CG/MCI/AV-VIDEO ADJUSTMENT-1
13	Gamma Amp R ✻	20		20	0 ~ 63	✻ R-VIDEO ADJUSTMENT
14	Gamma Amp B ✻	20		20	0 ~ 63	✻ B-VIDEO ADJUSTMENT
15	DAC RGB BIAS ✻	40	40	40	0 ~ 127	✻ CG/MCI/AV-VIDEO ADJUSTMENT-2
16	DAC R BIAS ✻	40	45	48	0 ~ 127	✻ CG-WHITE BALANCE ADJUSTMENT[RED]
17	DAC B BIAS ✻	40	45	48	0 ~ 127	✻ CG-WHITE BALANCE ADJUSTMENT[[BLUE]
18	DAC GAIN(SUB-CONT)	55	55	58	0 ~ 63	
19	S&H B-CK	15				
20	S&H G-CK	15				
21	S&H R-CK	15				
22	S&H B-SH	7				
23	S&H G-SH	7				
24	S&H R-SH	7				
25	S & H HCK PHASE ADJUSTMENT	5				
26	cxa2076 AV Sub-Color Adjustment	6				
27	cxa2076 AV RGB Pedestal ADJUSTMENT ✻	35			0 ~ 63	✻ R-PEDESTAL ADJUSTMENT
28	cxa2076 AV G Pedestal ADJUSTMENT ✻	150	150	150	0 ~ 255	✻ G-PEDESTAL ADJUSTMENT
29	cxa2076 AV B Pedestal ADJUSTMENT ✻	150	150	150	0 ~ 255	✻ B-PEDESTAL ADJUSTMENT
30	Not Used					
31	Not Used					
32	Not Used					
33	cxa2076 AV Sub Sharpness	3			0 ~ 15	
34	Sub Tint For NTSC	7			0 ~ 63	
35	Sub Tint For NTSC4.43	7			0 ~ 63	
36	Lamp Monitor Timer	0			—	Read Only(can not be modified)
37	Shootout ON/OFF	0			0 ~ 1	1:AV Signal Exist:AV, Not Exit :PC
38	Not Used					
39	Fan Operating Period on Power Off	3			0 ~ 255	1:30 second 3:90 second
40	Fan Speed Up	0			0 ~ 1	
41	Logo Display Option	1			0 ~ 1	0:Logo Display Off 1:Logo Display On
42	GAMMA R_WHP	58		58	0 ~ 63	
43	GAMMA G_WHP	58		58	0 ~ 63	
44	GAMMA B_WHP	58		58	0 ~ 63	
45	PIXEL OFFSET R ✻	38			0 ~ 63	✻ R-OFFSET ADJUSTMENT-[CG]
46	PIXEL OFFSET G ✻	38			0 ~ 63	✻ G-OFFSET ADJUSTMENT-[CG]
47	PIXEL OFFSET B ✻	38			0 ~ 63	✻ B-OFFSET ADJUSTMENT-[CG]
48	DAC D/A GAIN ✻	150	170	150	0 ~ 255	✻ VIDEO GAIN ADJUSTMENT-[CG/MCI]
49	cxa2076 AV RGB GAIN ✻	26			0 ~ 63	✻ R-VIDEO GAIN ADJUSTMENT
50	cxa2076 AV G GAIN ✻	42			0 ~ 63	✻ G-VIDEO GAIN ADJUSTMENT
51	cxa2076 AV B GAIN ✻	42			0 ~ 63	✻ B-VIDEO GAIN ADJUSTMENT
52	PIXEL GAIN R	192			0 ~ 255	
53	PIXEL GAIN G	192			0 ~ 255	

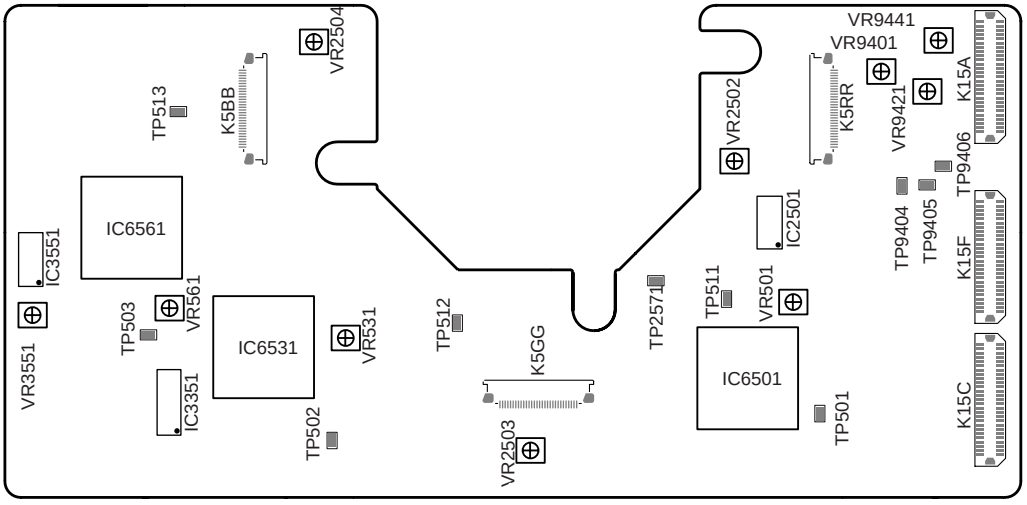
No.	Adjustment Item	Initial Value		Range	Description
54	PIXEL GAIN B	192		0 ~ 255	
55	Not Used				
56	Not Used				
57	Not Used				
58	Not Used				
59	Not Used				
60	Not Used				
61	Not Used				
62	Not Used				
63	Not Used				
		NTSC	PAL		
64	AV Total-Dots	2603	2655	0 ~ 4096	
65	AV Display-Dots	1016	1012		
66	AV H Back-Porch	229	260		
67	AV V Back-Porch	22	30		
68	AV Normal Disp-Line	457	537		
69	AV Clamp	100	100	1 ~ 255	Only HDTV
70	Not Used				
71	Not Used				
72	Not Used				
73	Not Used				
		COMPUTER	MCI / VIDEO		
74	Gamma RB1G	10	14		
75	Gamma GB1G	10	14		
76	Gamma BB1G	10	14		
77	White Uniformity Compensation-V Area ✻	0		0 ~ 12	Vertical area no. selection ✻ WHITE UNIFORMITY ADJ.
78	White Uniformity Compensation-H Area ✻	0		0 ~ 15	Horizontal area no. selection ✻ WHITE UNIFORMITY ADJ.
79	White Uniformity Compensation-Red ✻	32		0 ~ 63	Red white balance adjustment ✻ WHITE UNIFORMITY ADJ.
80	White Uniformity Compensation-Green ✻	32		0 ~ 63	Green white balance adjustment ✻ WHITE UNIFORMITY ADJ.
81	White Uniformity Compensation-Blue ✻	32		0 ~ 63	Blue white balance adjustment ✻ WHITE UNIFORMITY ADJ.
82	White Uniformity Compensation-Data Reset ✻	0		0 ~ 10	Data Reset for White Uniformity Compensation
83	White Uniformity Compensation-On/Off ✻	186		58 or 186	White uniformity compensation mode On/Off 58 : OFF, 186 : ON

Test Points and Locations

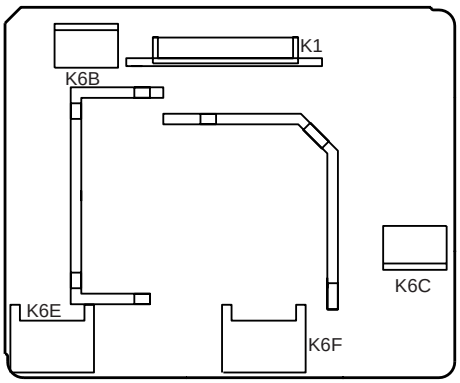
● Main Comp-A Board



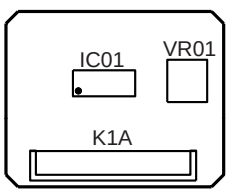
● Main Comp-B Board

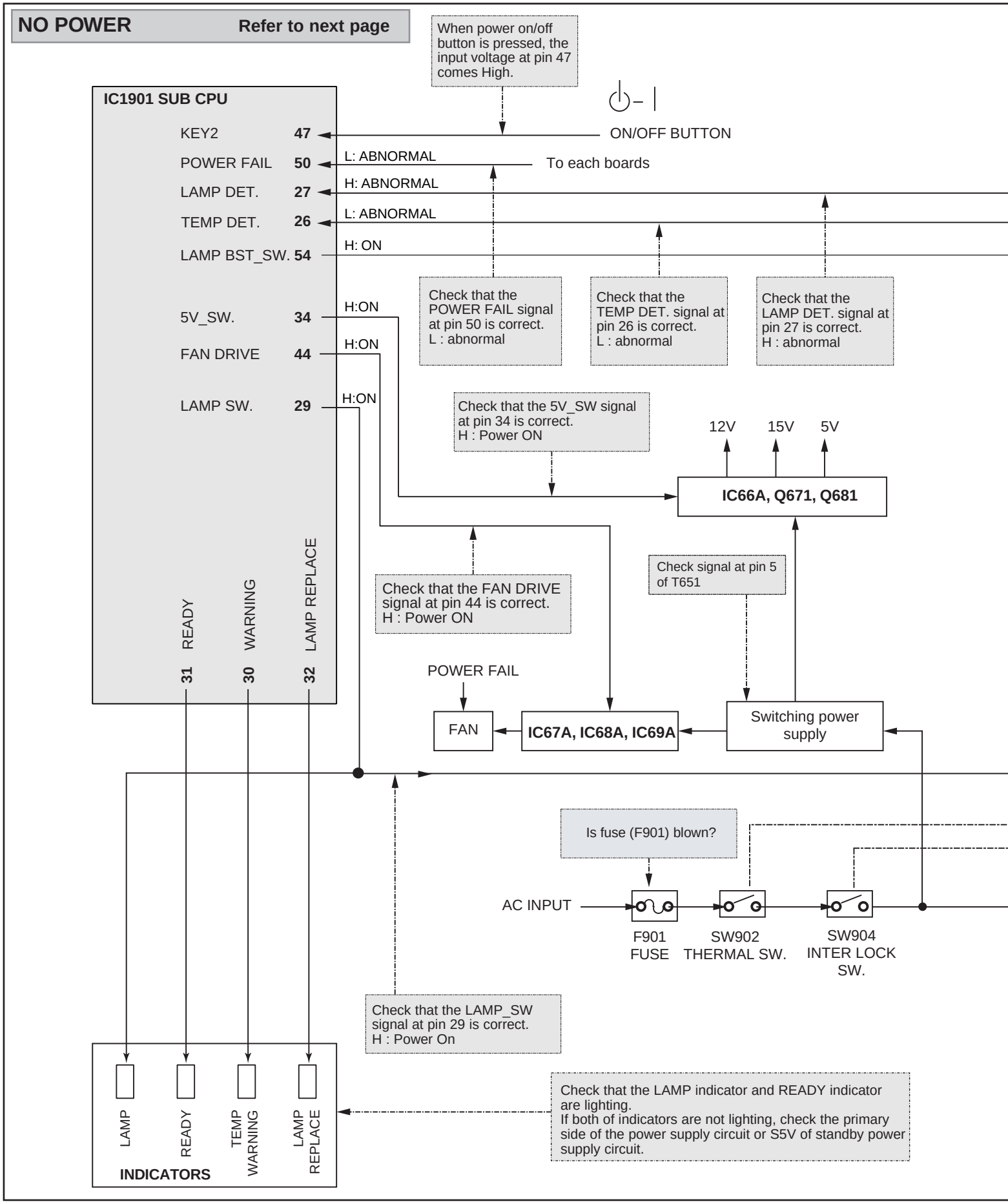


● P.F.C Board



● HIC Board

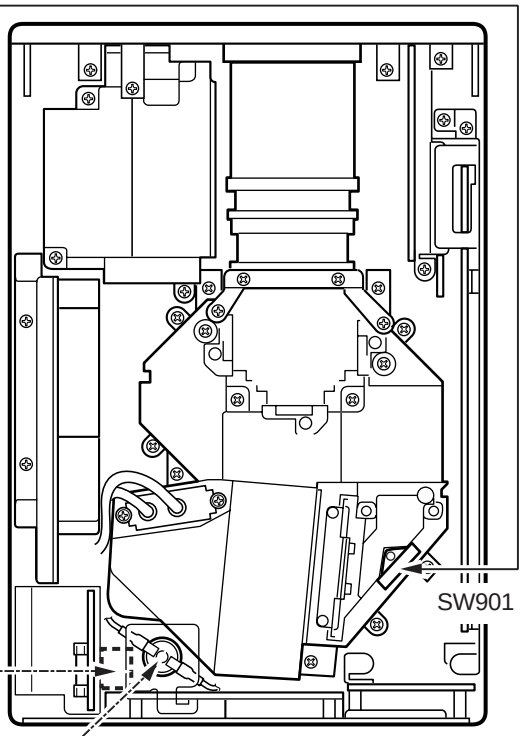



NO POWER
Refer to next page
When power on/off button is pressed, the input voltage at pin 47 comes High.
IC1901 SUB CPU
KEY2 47
ON/OFF BUTTON
POWER FAIL 50
L: ABNORMAL
To each boards
LAMP DET. 27
H: ABNORMAL
TEMP DET. 26
L: ABNORMAL
LAMP BST_SW. 54
H: ON
Check that the POWER FAIL signal at pin 50 is correct. L : abnormal
Check that the TEMP DET. signal at pin 26 is correct. L : abnormal
Check that the LAMP DET. signal at pin 27 is correct. H : abnormal
5V_SW. 34
H:ON
FAN DRIVE 44
H:ON
LAMP SW. 29
H:ON
Check that the 5V_SW signal at pin 34 is correct. H : Power ON
12V
15V
5V
IC66A, Q671, Q681
Check that the FAN DRIVE signal at pin 44 is correct. H : Power ON
Check signal at pin 5 of T651
READY 31
WARNING 30
LAMP REPLACE 32
POWER FAIL
FAN
IC67A, IC68A, IC69A
Switching power supply
Is fuse (F901) blown?
AC INPUT
F901 FUSE
SW902 THERMAL SW.
SW904 INTER LOCK SW.
Check that the LAMP_SW signal at pin 29 is correct. H : Power On
LAMP
READY
TEMP WARNING
LAMP REPLACE
INDICATORS
Check that the LAMP indicator and READY indicator are lighting.
If both of indicators are not lighting, check the primary side of the power supply circuit or S5V of standby power supply circuit.

Is thermal switch (SW901) operating ?
If peripheral temperatures at the optical unit reaches 85˚C, the thermal switch turns off.
SW901 -- OPEN: abnormal

Abnormal temperature detection at the periphery of optical unit.

SW901



Is projection of lamp cover inside broken or not fitting correctry ?
Check the interlock switch (SW904) and lamp cover.
SW904 -- OPEN : abnormal

Interlock switch
SW904

SW902

Is thermal switch (SW902) operating ?
If peripheral temperatures at the lamp house reaches 100˚C, the thermal switch turns off.
SW902 -- OPEN: abnormal

When projector turns on, LAMP SW signal comes LOW.

When an abnormal temperature is detected at the periphery of lamp driver circuit, the voltage of this line comes HIGH.

Abnormal temperature detection at the periphery of P.F.C. circuit

LAMP SW.

LAMP.DET

CB2

CB2

TSW611

P.F.C. control

P.F.C.

LAMP BALLAST UNIT

LAMP

Check that the thermal switch (TSW611) is operating.
If temperature at peraiphery of P.F.C. circuit reaches 90˚C, TSW611 turns on.
TSW611 -- OPEN: Normal

NO POWER

PERIPHERY OF CHASSIS

1. Is fuse (F901) blown?
   Fuse may be opened when either the LAMP indicator or the READY indicator isn't Illuminated. Check the fuse.
   - For continued safety, replace with a fuse of the same type.
     TYPE T4.0AH 250V FUSE. (LITTLE FUSE INC. TYPE 215004)
2. Is projection of lamp cover inside broken or not fitting?
   Check the INTER LOCK switch(SW904) and lamp cover.
   SW904 ..... OPEN : abnormal
3. Is thermal switch(SW902) operating?
   If temperatures periphery of lamp house reaches 100˚C, the thermal switch will be turned off automatically.
   SW902 ..... OPEN : abnormal
4. Is thermal switch(SW901) operating? (with the WARNING TEMP. indicator flashing)?
   If temperatures periphery of optical unit reaches 85˚C, the thermal switch will be turned off automatically.
   SW901 ..... OPEN : abnormal

POWER, P.F.C. BOARD

1. Are the LAMP indicator(red) and READY indicator(green) light?
   If the LAMP and READY indicators do not illuminated, check the primary circuit and S5V of standby power supply circuit.
2. Check that the FAN DRIVE signal is correct.
   Pin 3 of K6P ..... H : ON
3. Check that the LAMP BST-SW signal is correct.
   Pin 2 of K6P ..... H : ON
4. Check that the 5V_SW signal is correct.
   Pin 5 of K6P ..... H : ON
5. Check that the POWER FAIL signal is correct.
   Pin 6 of K6P ..... L : abnormal
6. Is thermal switch(TSW611) operating?
   If temperatures periphery of P.F.C. circuit reaches 90˚C, the thermal switch will be turned on automatically.
   TSW611 ..... SHORT : abnormal
7. Check the signal at pin 5 of T651. (Switching power IC output signal)

MAIN COMP-C BOARD

1. Check that the Vcc-voltage(+5V) is applied to pins 4, 5 of K30R and pins 61-64 of K30EE.

MAIN COMP-B BOARD

1. Check that the Vcc-voltage(+5V) is applied to pin 11 of IC1901, pin 38-40 of K15EE.
2. Check that the POWER FAIL signal is correct.
   Pin 50 of IC1901 ..... L : abnormal
3. Check that the TEMP DET. signal is correct.
   Pin 26 of IC1901, pin 4 of K5M ..... L : abnormal
4. Check that the LAMP DET. signal is correct.
   Pin 27 of IC1901, pin 3 of K5A ..... H : abnormal
5. Check that the LAMP_SW signal is correct.
   Pin 29 of IC1901 ..... H : ON
   Pin 1 of K5A..... L : ON
6. Check that the 5V_SW signal is correct.
   Pin 34 of IC1901, pin 5 of K5P..... H : ON
7. Check that the FAN DRIVE signal is correct.
   Pin 44 of IC1901, pin 3 of K5P..... H : ON
8. Check that the LAMP BST_SW signal is correct.
   Pin 54 of IC1901, pin 2 of K5P..... H : ON

NO PICTURE

AV, AV SUB BOARD

1. Check that the Vcc-voltages(+5V, -5V) are applied to AV circuits.
   Pins 45-48 of K3001, pins 29-32 of K3002 .....5V
   Pins 51-54 of K3001, pins 35-38 of K3002 .....-5V
   Check IC1001 and IC1002.
2. Check that the following input signals are observed correctly.

SIGNAL	K3001-pin No.	K3002-pin No.
V-Sync	17-18	1-2
H-Sync	19-20	3-4
B	23-24	7-8
G	25-26	9-10
R	27-28	11-12
Video	35-35	15-16
S-C	39-40	25-26
S-Y	43-44	19-20

MAIN COMP-D BOARD

1. Check the signals at following test points.
   - Video signal at TP2101
   - V-sync signal at TP6131
   - H-sync signal at pin 9 of IC6131

MAIN COMP-A BOARD

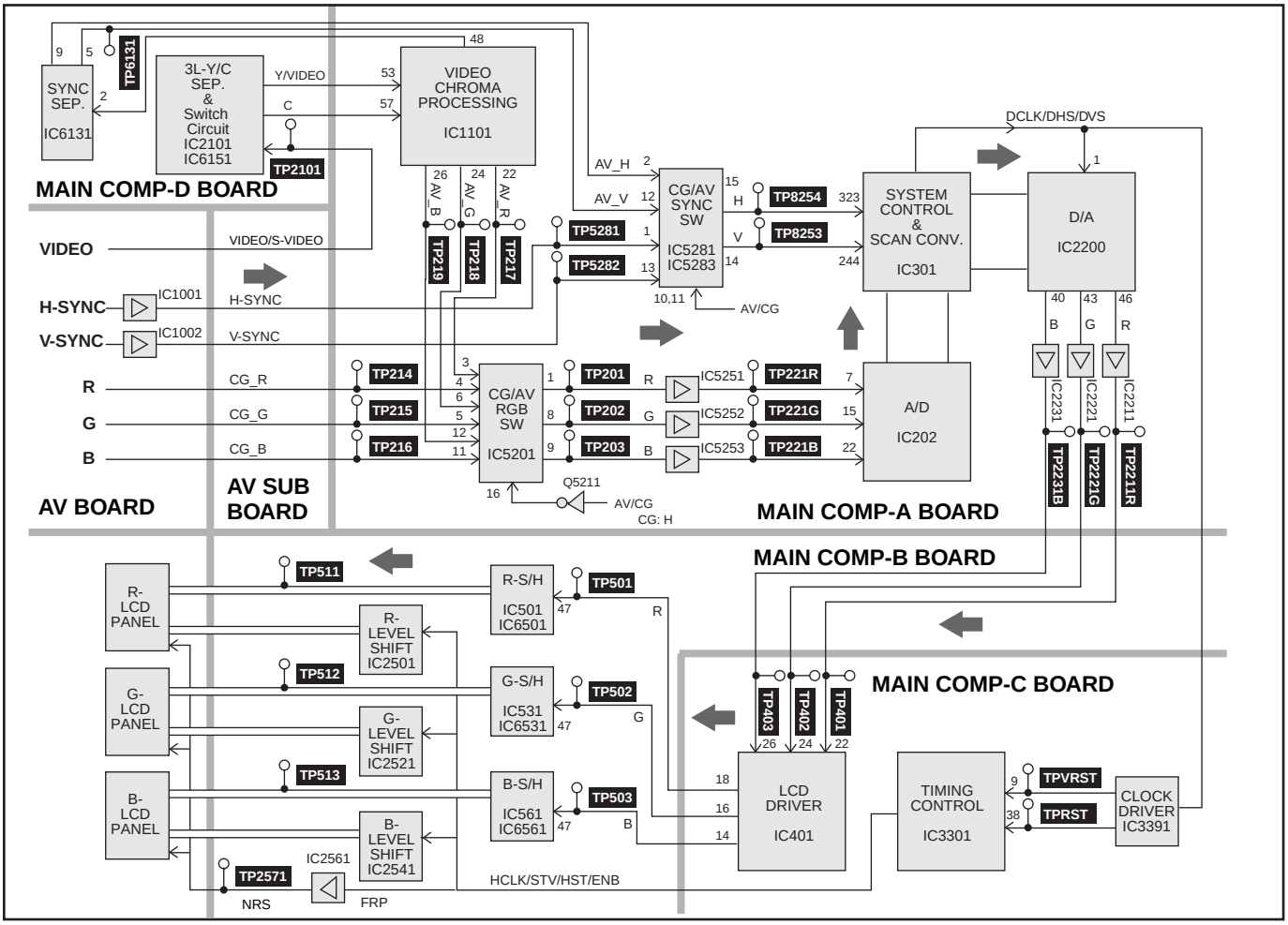
1. Check that the AV/CG switching signal is correct.
   Pin 16 of IC5201 .....AV: H, CG: L
   Pins 10, 11 of IC5282.....AV: L, CG: H
2. Check that the sync signals are correct.
   TP5281, TP8254 .....H-Sync
   TP5282. TP8253.....V-Sync
3. Check that the RGB signals are observed at following test points.
   TP214,TP217,TP201, TP221R, TP2211R .....R-signal
   TP215,TP218,TP202, TP221G, TP2221G .....G-signal
   TP216,TP219,TP203, TP221B, TP2231B.....B-signal

MAIN COMP-C BOARD

1. Check that the signals are observed at following test points.
   TP401, TP402, TP403 .....R, G, B signals
   TPVRST, TPRST.....V-Sync, H-Sync

MAIN COMP-B BOARD

1. Check that the signals are observed at following test points.
   TP501, TP502, TP503, TP511, TP512, TP513
   .....R, G, B Drive signals



NO SOUND

AV, AV SUB BOARD

1. Check that the Vcc-voltage(+9V) is applied at pins 3-6 of K3802.
2. Check that the AV/CG switching signal is correct.
   Pin 9, 10 of IC5001 ..... AV : L
   CG : H
3. Check that audio signal is observed at following points.
   Pins 9-10 of K3802, pins 11-14 of K3801

MAIN COMP-B BOARD

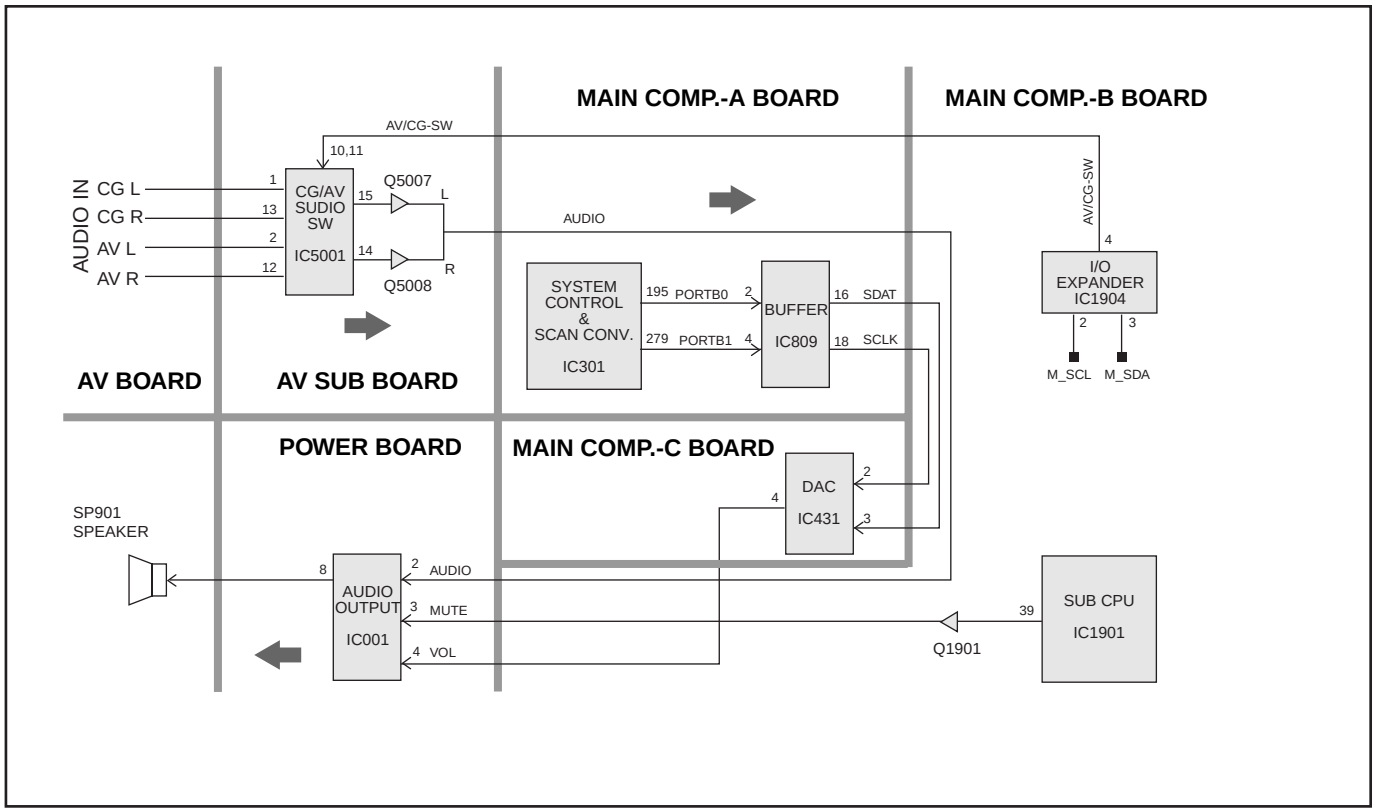
1. Check that the AV/CG switching signal is correct.
   Pin 4 of IC1904 ..... AV : L
   CG : H
2. Check that the MUTE signal is correct.
   Pin 39 of IC1901 .....MUTE On: H

MAIN COMP-C BOARD

1. Check that sound volume control signal is correct.
   Pin 4 of IC431

POWER BOARD

1. Check that sound volume control signal is correct.
   Pin 4 of IC001
2. Check that audio signal is observed at pin 2 of IC001.
3. Check the MUTE signal at pin 3 of IC001.
   Pin 3 of IC001 .....MUTE On: H
4. Check that Vcc-voltage(+12V) is applied at pins 1 and 9 of IC001.



■ Control Port Functions

● SUB CPU (IC1901) Port Functions

Pin No.	Function Name	Function	Polarity	I/O
1	RXD0	RXD 0(Write for Sub CPU flash ROM)	active: L	I
2	TXD1	TXD 0(Write for Sub CPU flash ROM)	active: L	O
3	CNVSS	Write for Sub CPU flash ROM	-	I
4	MSCL	S-IIC SCL	active: L	I/O
5	MSDA	S-IIC SDA	active: L	I/O
6	RESET	Reset Input	L: reset	I
7	N.C.	-	-	-
8	XOUT	CPU Reference Clock Output	8MHz	O
9	VSS	Vss	-	I
10	XIN	CPU Reference Clock Input	8MHz	I
11	VCC	Vcc	-	I
12	R/C IN	Remote Control Signal Input	active: L	I
13	N.C.	-	-	-
14	reserved	no use		O
15	RXD 1	RXD 1(Communication for Main CPU)	active: L	I
16	1 SEC	1Second Counter	pulse	O
17	TXD 1	TXD 1(Communication for Main CPU)	active: L	O
18	N.C.	-	-	-
19	PIX RESET	Pixel Works Reset	H: PW off	O
20	reserved	no use		O
21	reserved	no use		O
22	reserved	no use		O
23	reserved	no use		O
24	reserved	no use		O
25	TXD_SW1	RS232C SW1(Write for MCI Card)		O
26	TEMP ERROR	Abnormal Temperature	L: Abnormal	I
27	LAMP ERROR	Lamp Status	H: No Light	I
28	TXD_SW2	RS232C SW2(Write for Main CPU Flash ROM)		O
29	LAMP SW	Lamp Power	H: ON	O
30	WARNING LED	WARNING LED ON/OFF	H: ON	O
31	READY LED	READY LED ON/OFF	H: ON	O
32	LAMP REP LED	LAMP REPLACE LED ON/OFF	H: ON	O
33	FAN_SPEED UP	Fun Speed Up	L: ON	O
34	5V_SW	5V Power Supply ON/OFF	H: ON	O
35	reserved	no use		O
36	reserved	no use		O
37	reserved	no use		O
38	reserved	no use		O
39	MUTE SW	Audio Mute	H: ON	O
40	reserved	no use		O
41	N.C.	N.C.	-	-
42	WRM	PW Write Mode	L: Write Mode	I
43	TXD_SW3	RS232C SW3		O
44	FAN_DRIVE	Fun Drive	H: ON	O
45	OPTION	Destination Option		I
46	KEY3	Key SW 3		I
47	KEY2	Key SW 2		I
48	KEY1	Key SW 1		I
49	AVSS	GND	-	I
50	POWER FAIL	Power Fail Detection Input	L: Abnormal	I
51	VREF	Vcc	-	I
52	AVCC	Vcc	-	I
53	N.C.	-	-	-
54	LAMP_BST_ON	Lamp Ballast ON/OFF	H: ON”	O
55	CLKS(BUSY)	Write for Sub CPU Flash ROM	active: H	O
56	CLKO	Write for Sub CPU Flash ROM	active: L	I

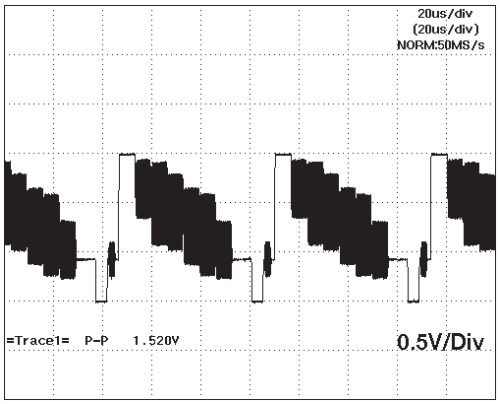
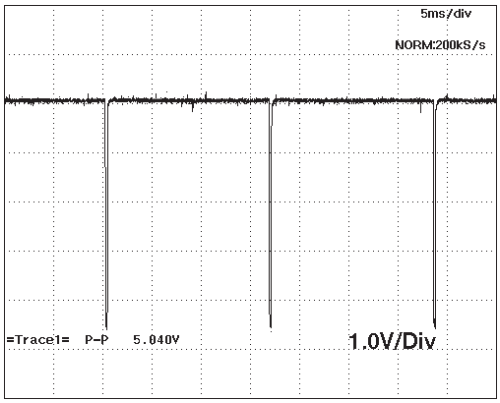
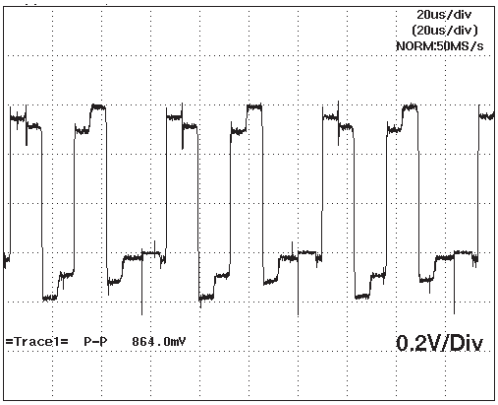
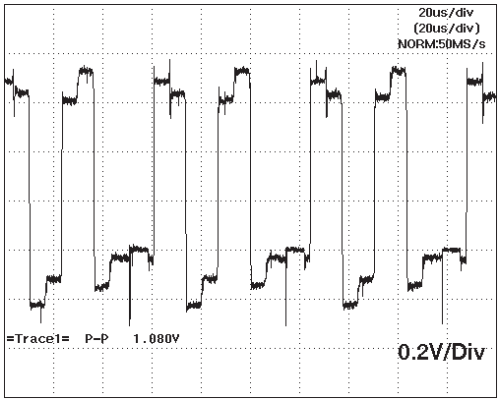
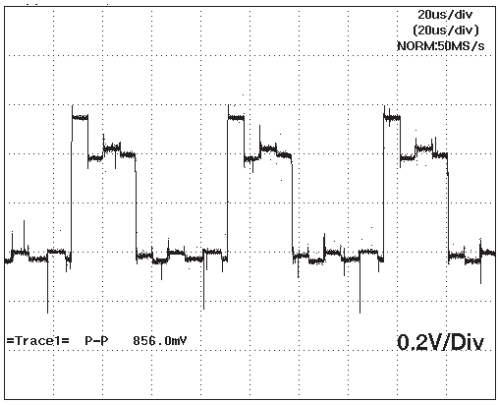
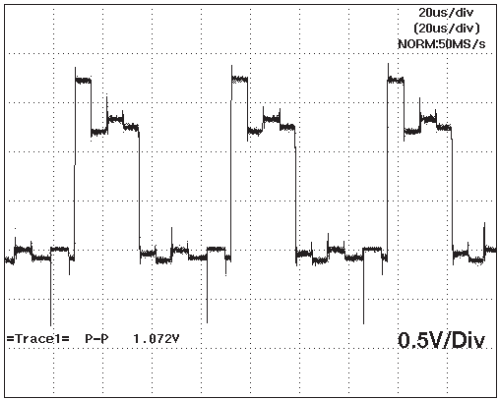
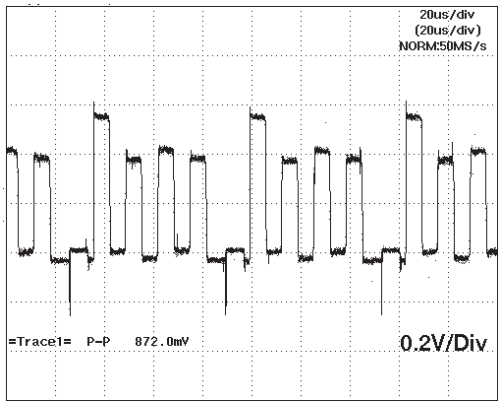
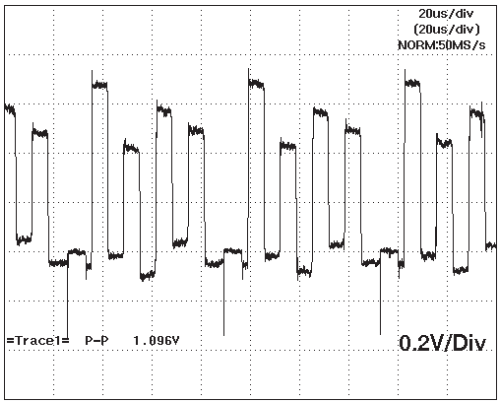
● I/O Expander (IC1904) Port Functions

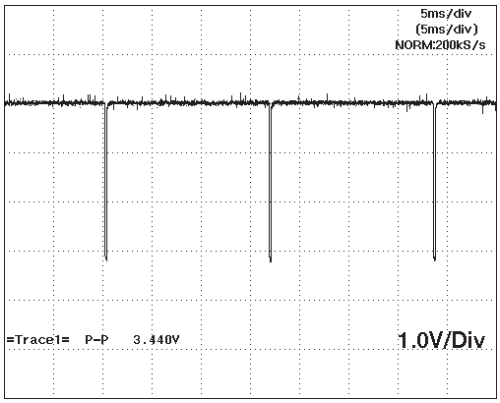
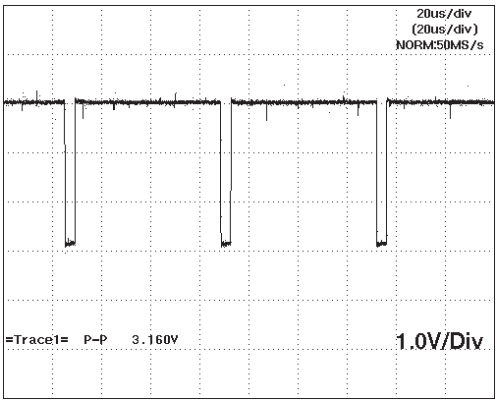
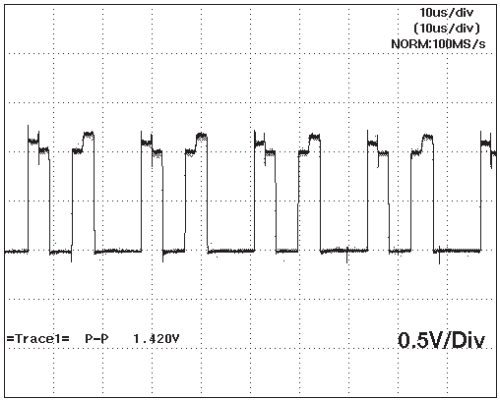
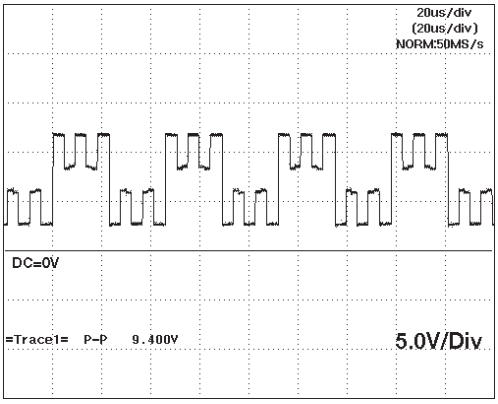
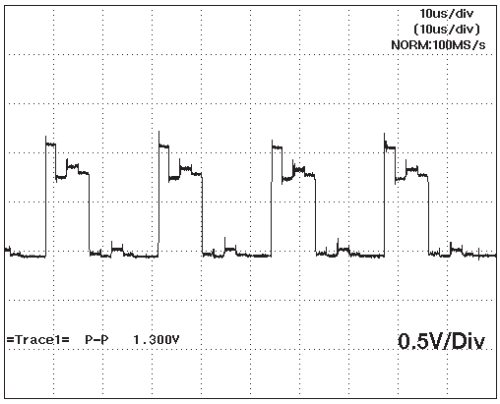
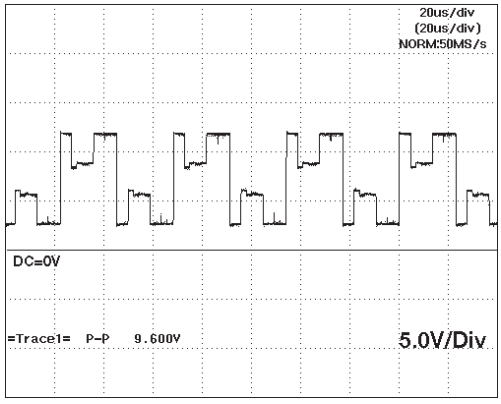
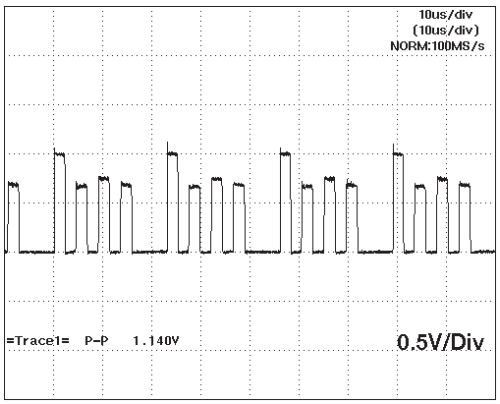
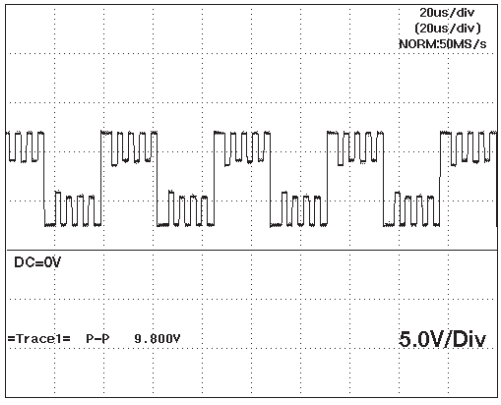
Pin No.	Function Name	Function	Action	I/O
1		no use		O
2	SCL	SCL	L: active	I/O
3	SDA	SDA	L: active	I/O
4		AV/CG Switch		O
5		NTSC/OTHER		O
6		ADPD	L: MCI H: else	O
7		MCISEL	L: MCI H: else	O
8	GND	-	-	-
9		FOCUS -	L: ON H: OFF	O
10		FOCUS +	L: ON H: OFF	O
11		ZOOM -	L: ON H: OFF	O
12		ZOOM +	L: ON H: OFF	O
13		5 V	-	-
14				
15				
16				

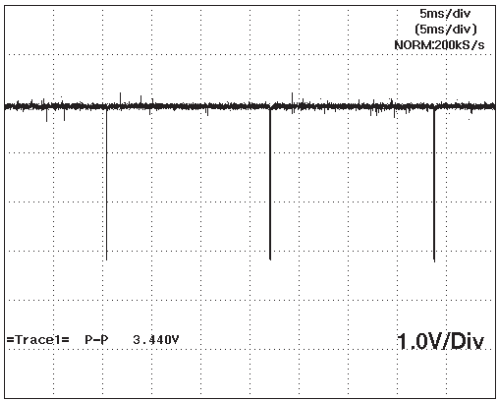
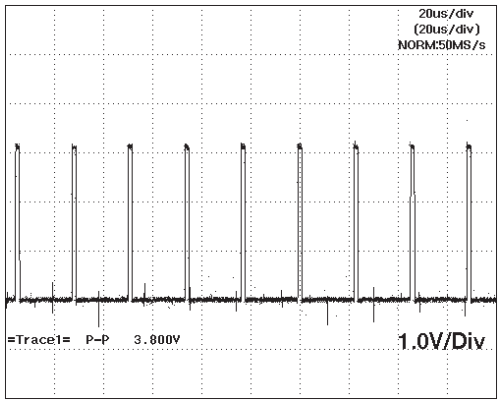
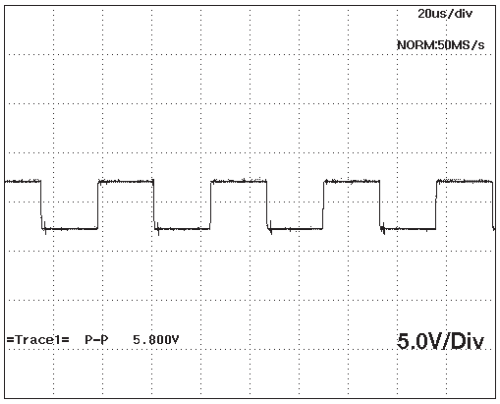
● I/O Expander (IC1905) Port Functions

Pin No.	Function Name	Function	Action	I/O
1		no use		O
2	SCL	SCL		I/O
3	SDA	SDA		I/O
4		MCI CARD IN	L: active	I
5		MCI CARD ACCESS	L: active	I
6		S-Input Detection		
7		VIEW _ BUSY		O
8	GND	-	-	
9		VW _ OFF	L: MCI H: else	O
10		PALM/N		O
11		AUDIO MUTE	H: OFF L: ON	O
12		MOUSE		O
13		5 V	-	-
14				
15				
16				

■ Waveforms

TP2101 **AV VIDEO**		**TP6131** **AV** **V-SYNC**	
TP217 **TP201** **R-INPUT**		**TP221R** **A/D** **R-INPUT**	
TP218 **TP202** **G-INPUT**		**TP221G** **A/D** **G-INPUT**	
TP-219 **TP203** **B-INPUT**		**TP221B** **A/D** **B-INPUT**	

TP8253 **V-SYNC**		**TP8254** **H-SYNC**	
TP2211R **D/A** **R-OUTPUT**		**TP501** **TP511** **S&H** **R-OUTPUT**	
TP2221G **D/A** **G-OUTPUT**		**TP502** **TP512** **S&H** **G-OUTPUT**	
TP2231B **D/A** **B-OUTPUT**		**TP503** **TP513** **S&H** **B-OUTPUT**	

TPDVS **V-SYNC**		**TPDHS** **H-SYNC**	
TP2571 **NRS**			

■ Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:
Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be vary careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

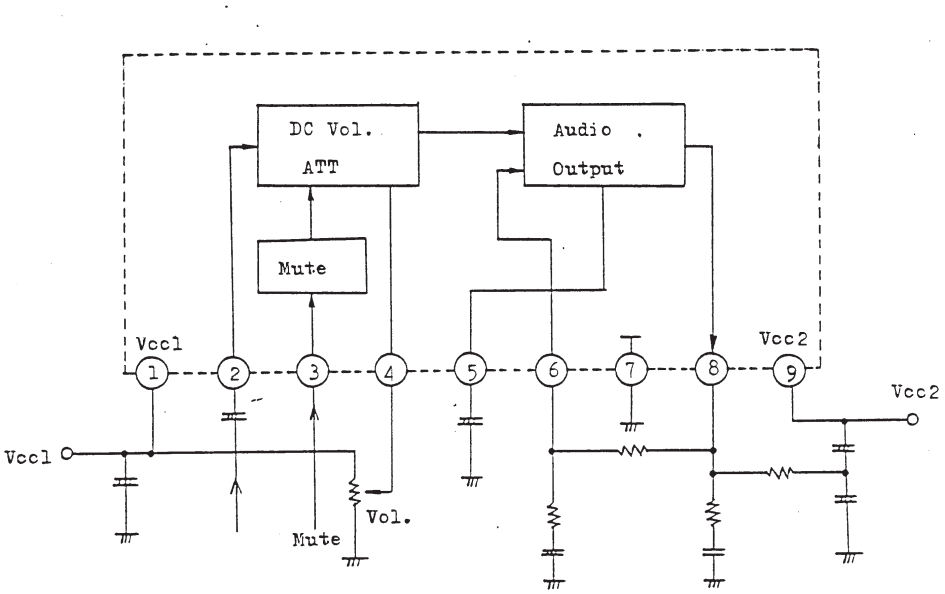
Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.
Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassemblies”.
2. Remove the optical base top following to “Optical Unit Disassemblies”. If the LCD panel needs cleaning, remove the LCD panel unit following to “LCD panel replacement”.
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

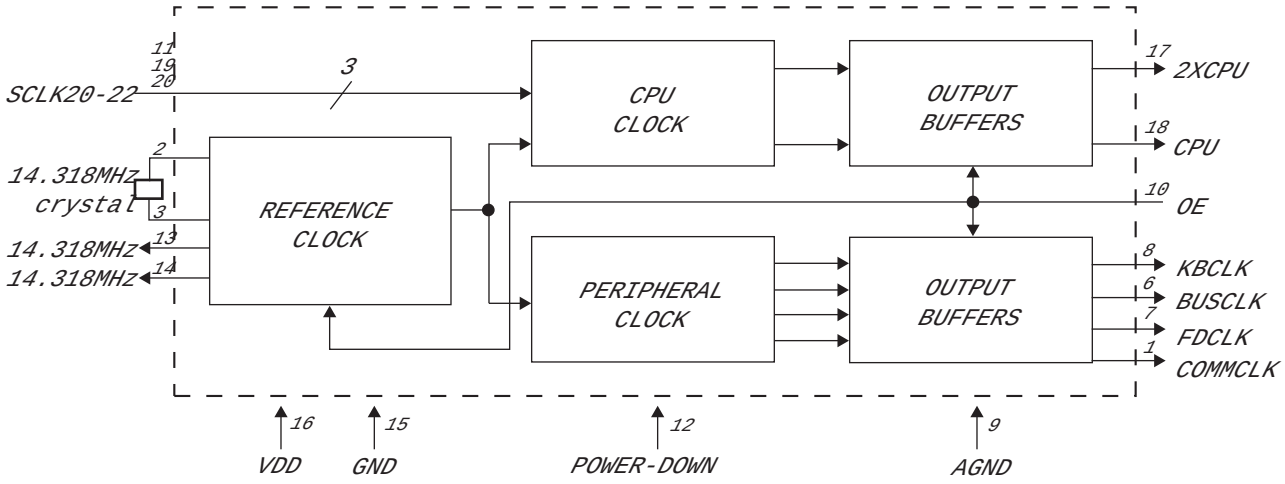
Caution:
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

■ IC Block Diagrams

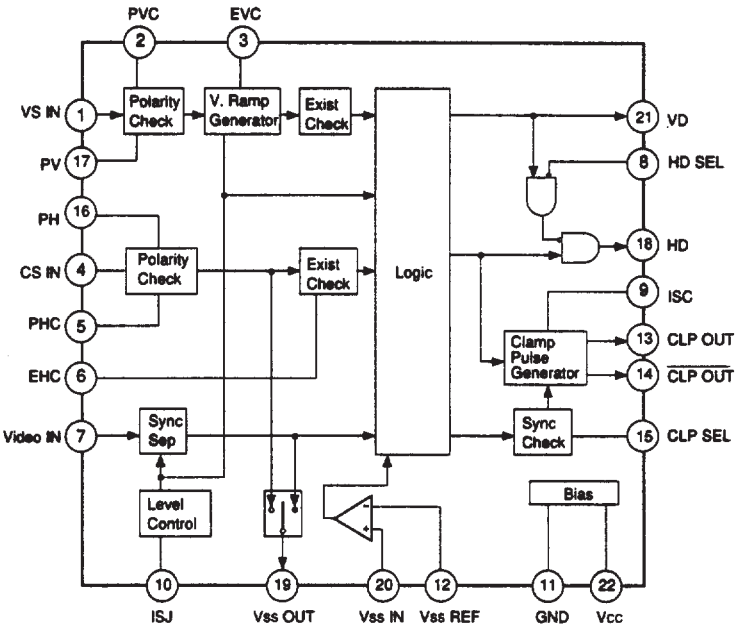
● AN5265 <AUDIO OUTPUT, IC001>



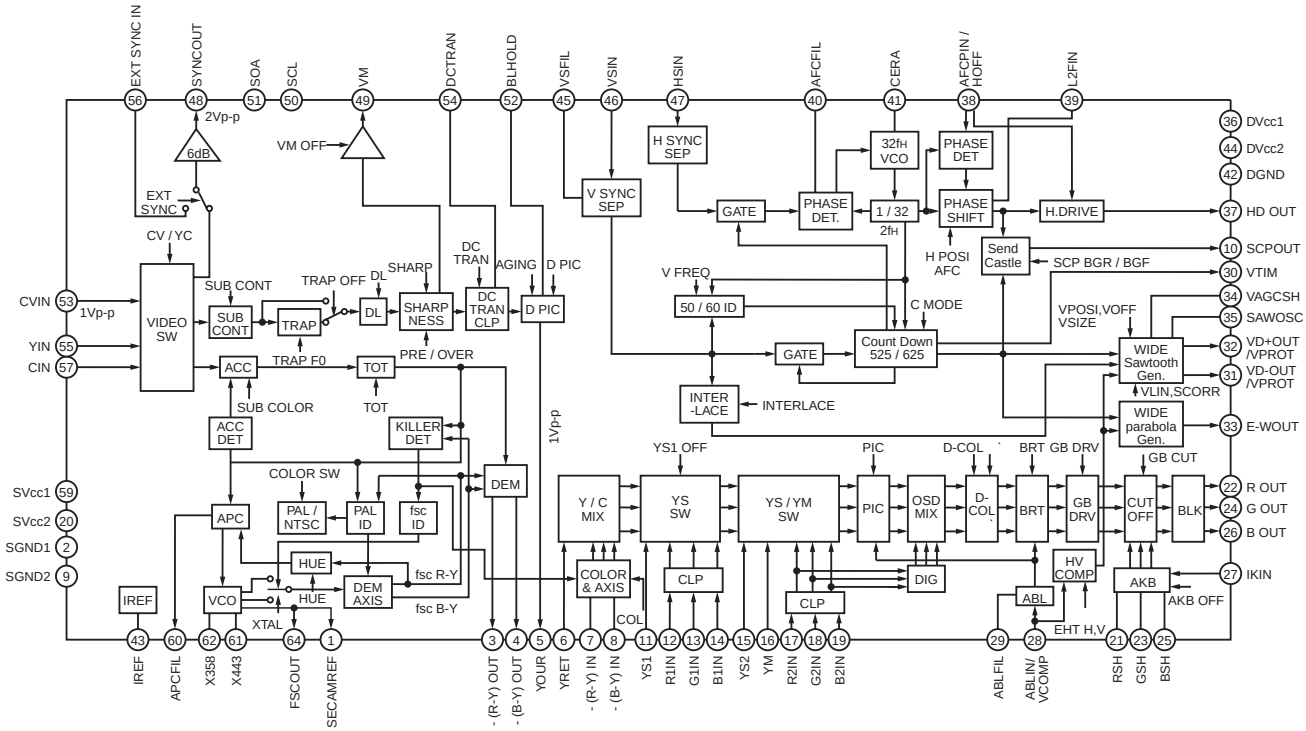
● AV9155C <PLL, IC1301>



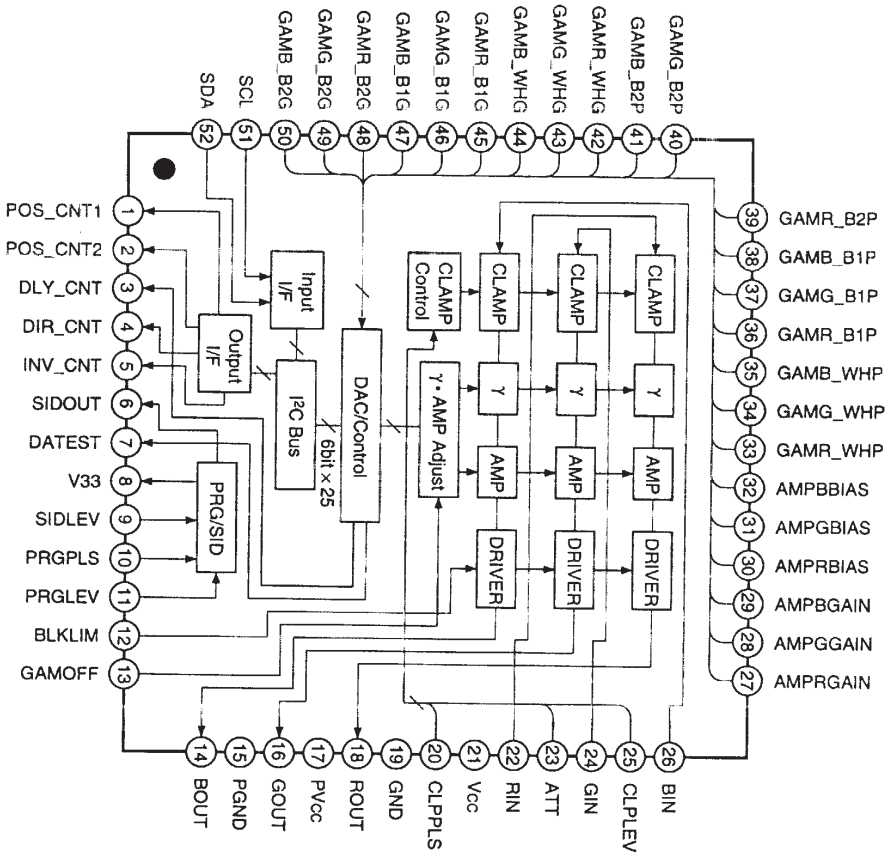
● CXA2016S <Sync Separator, IC3031>



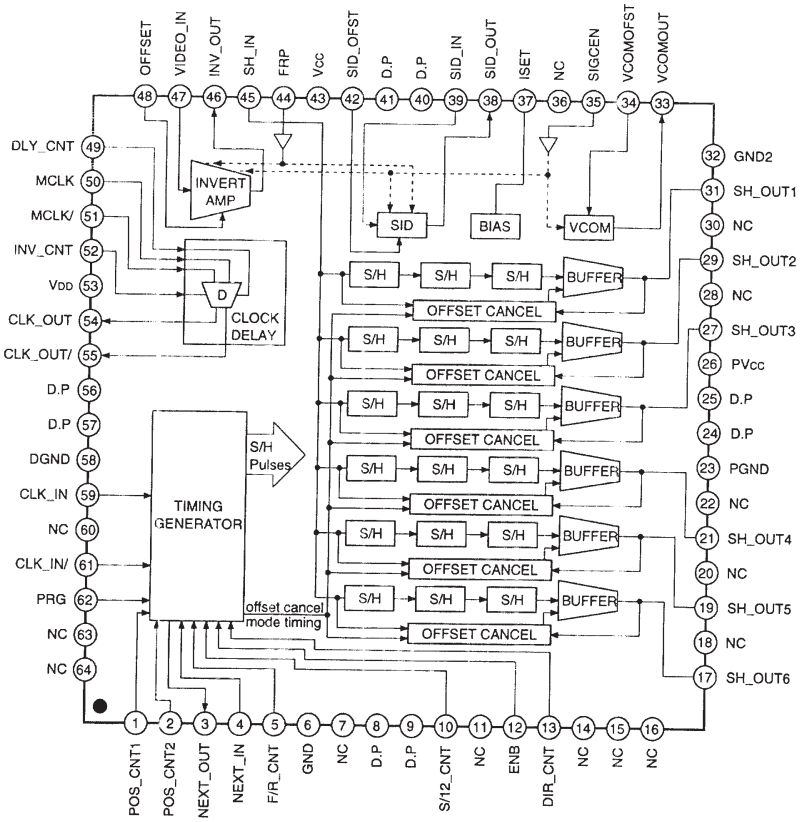
● CXA2076Q <Video/Chroma, IC1101>



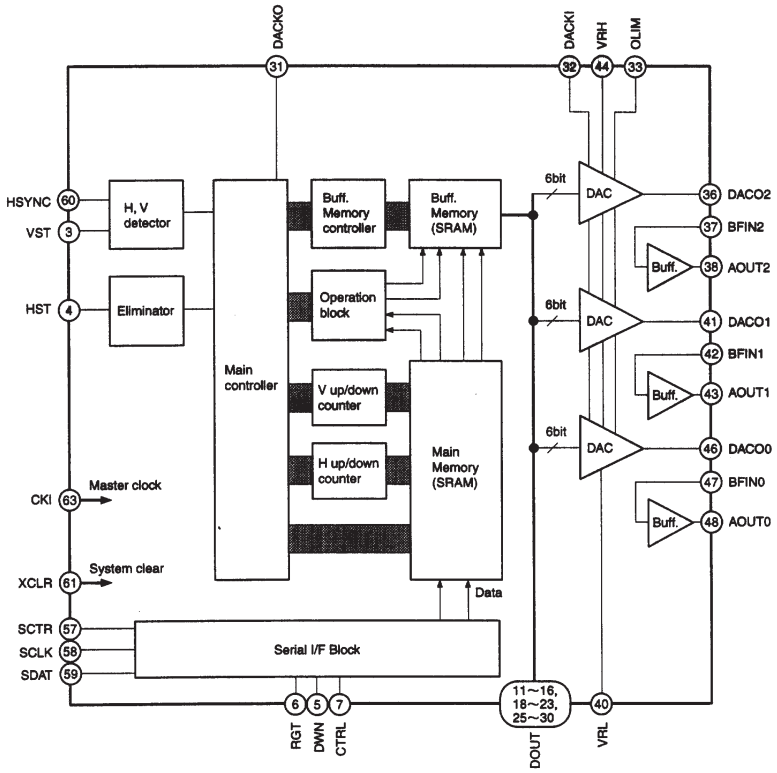
● CXA2111R <LCD Driver, IC401>



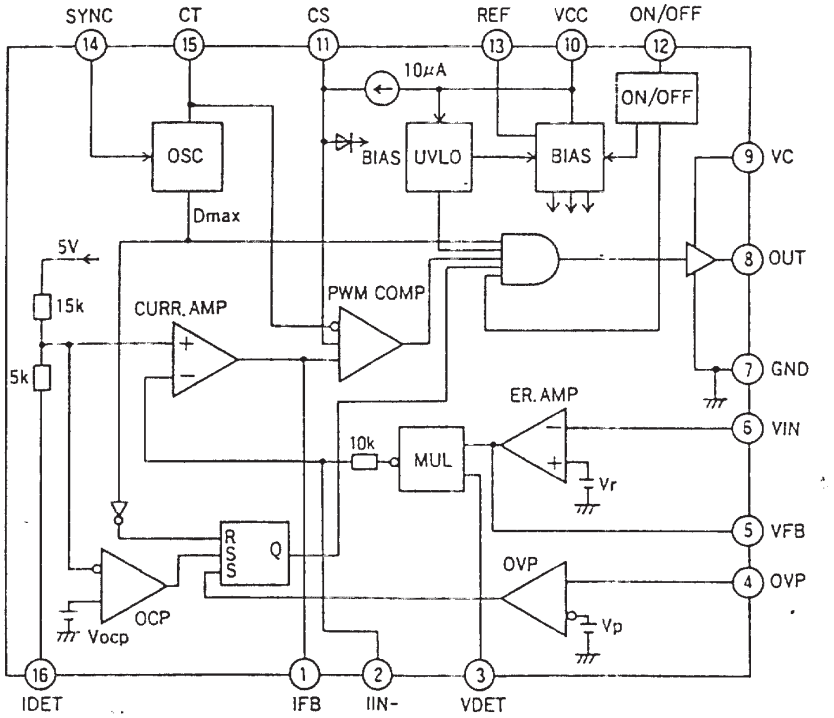
● CXA2112R <Sample & Hold, IC501, IC531, IC561, IC6501, IC6531, IC6551>



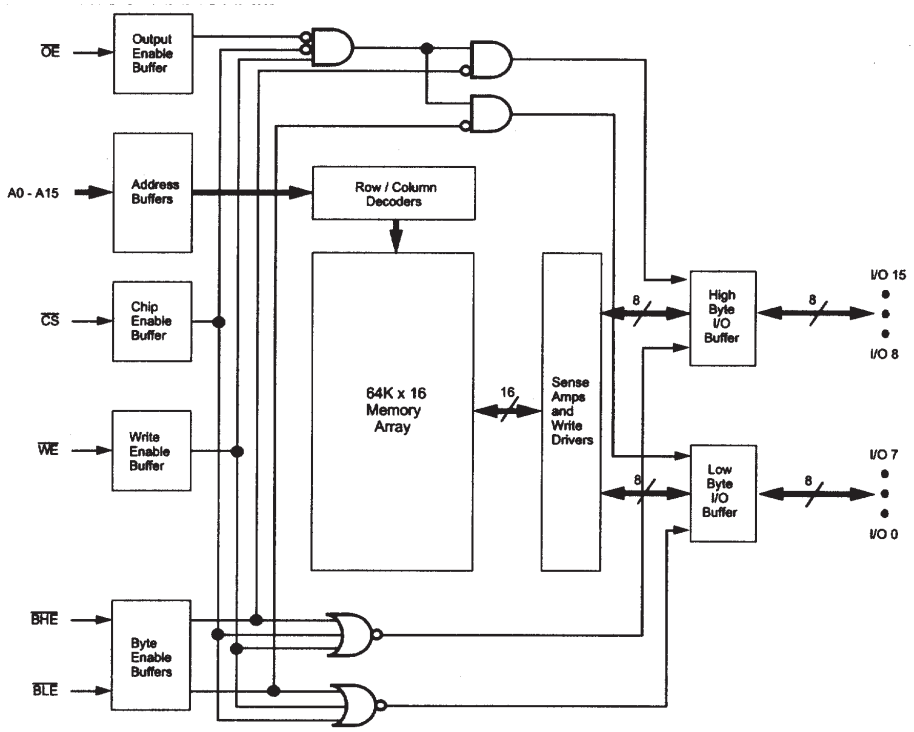
● CXD3503R <White Uniformity Compensation, IC471>



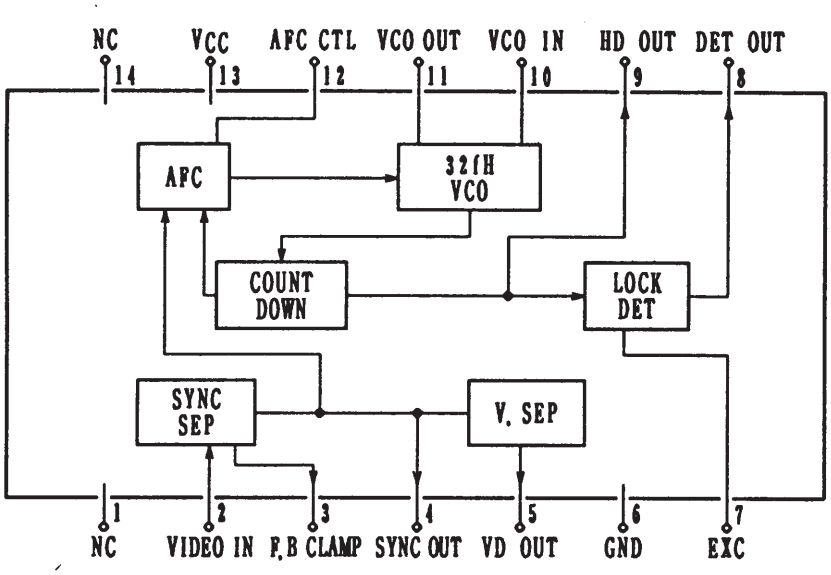
● FA5331M <Power Factor Control, IC01>



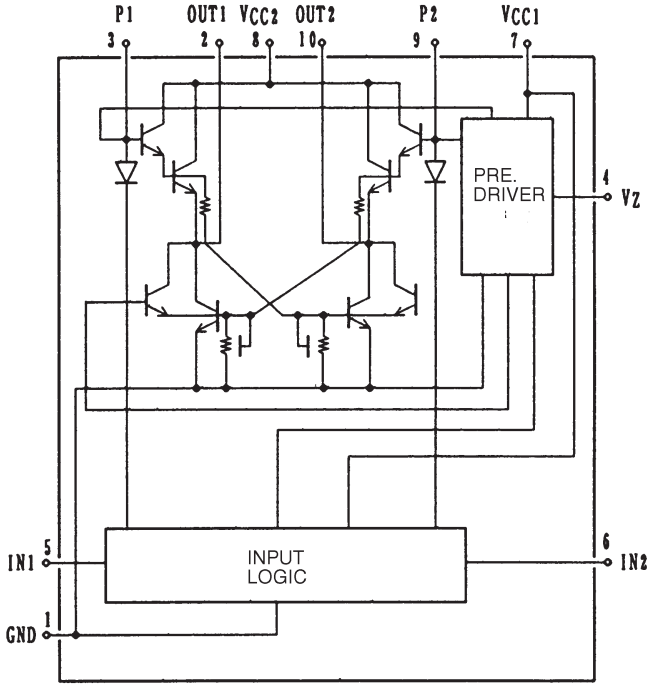
● IDT71V016S <RAM, IC805>



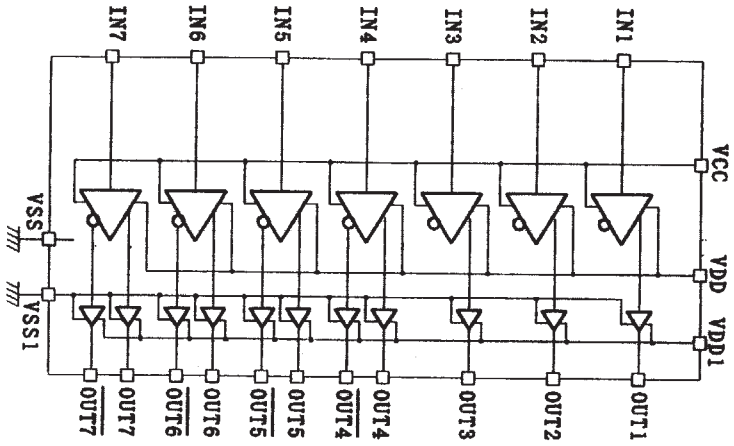
● LA7217M <Sync. Separator, IC6131>



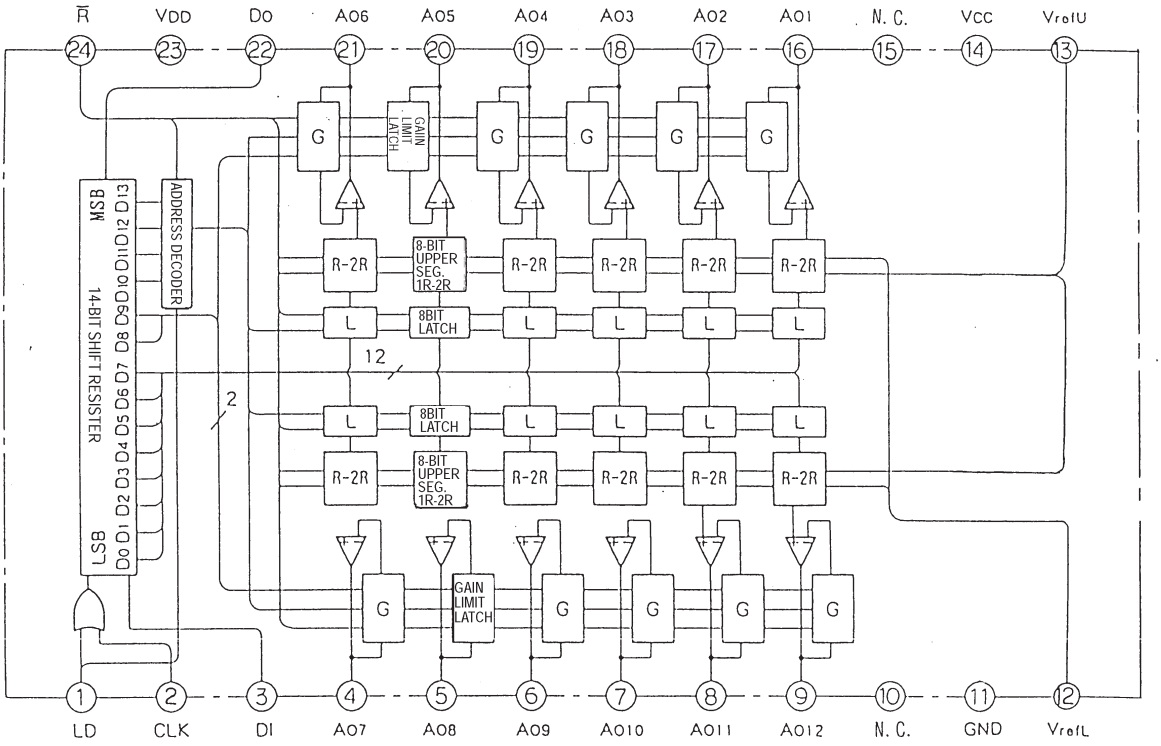
● LB1641<Motor Drive, IC5501, IC5551>



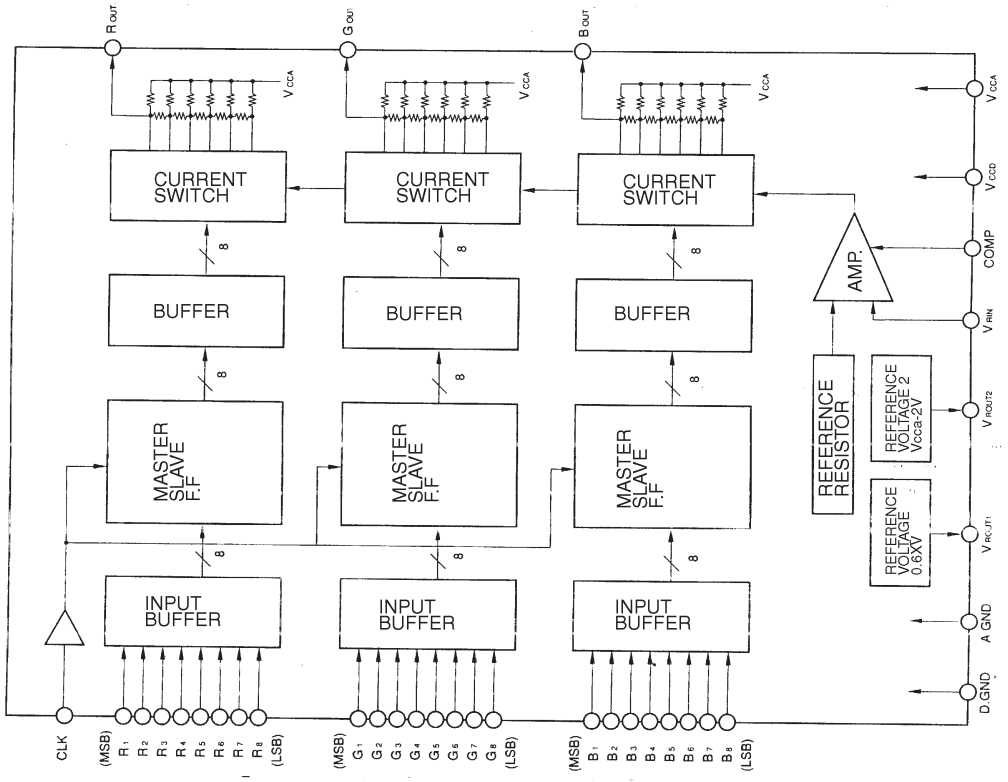
● LC4105V <Buffer, IC2501, IC2521, IC2541>



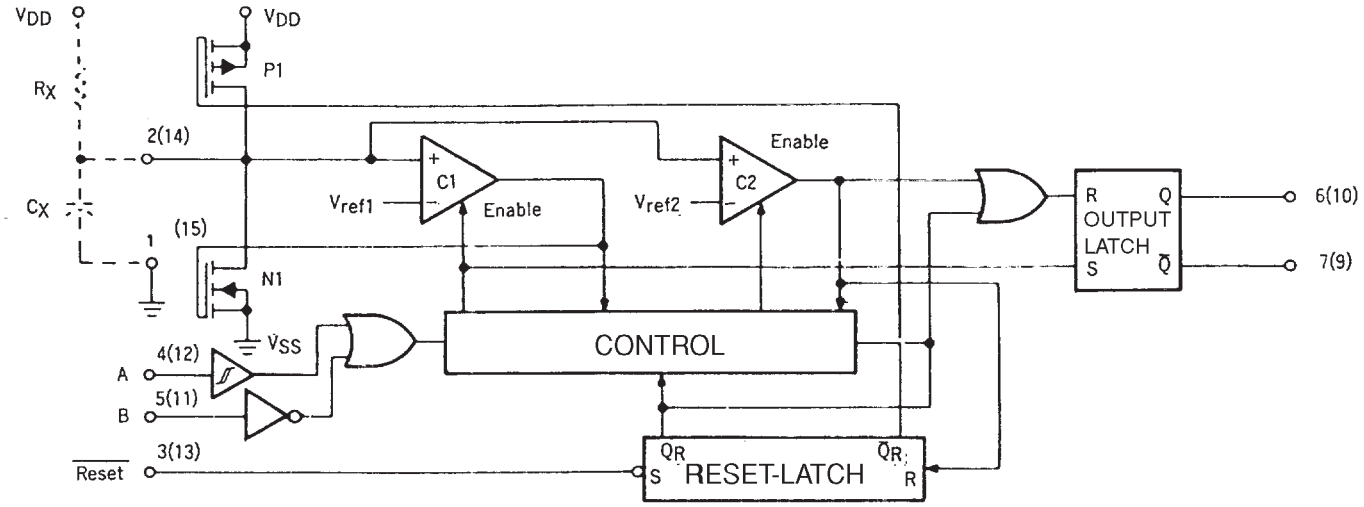
● M62358FP <DAC, IC431>



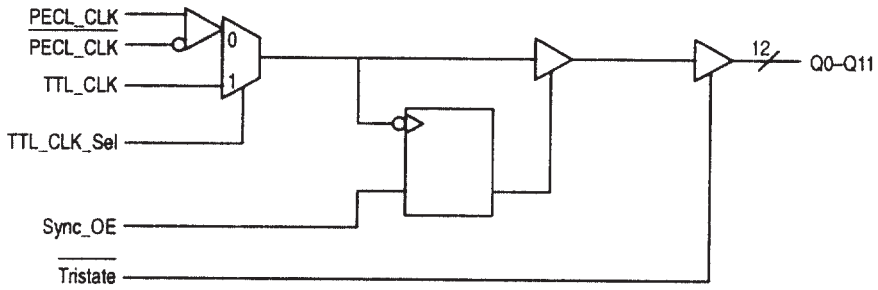
● MB40988PFQ<D/A COnverter, IC2200>



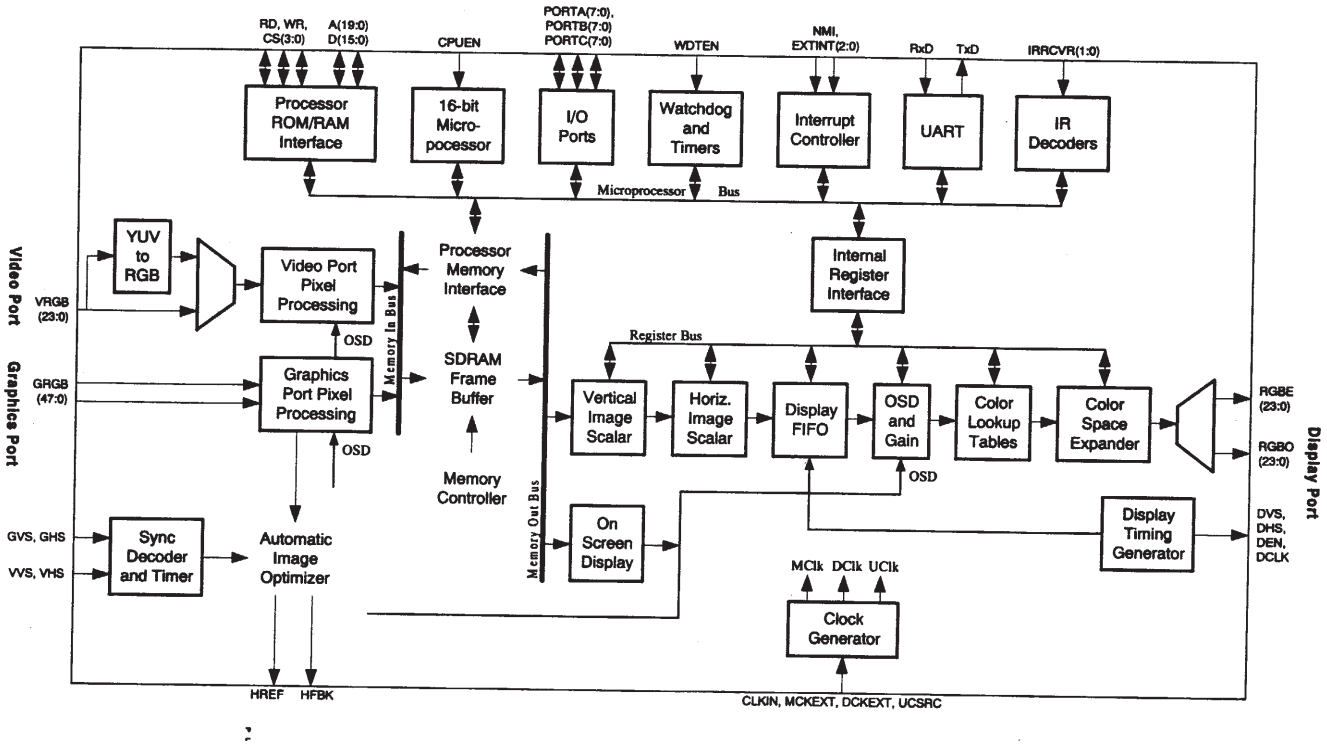
● MC14538BF <IC7201>



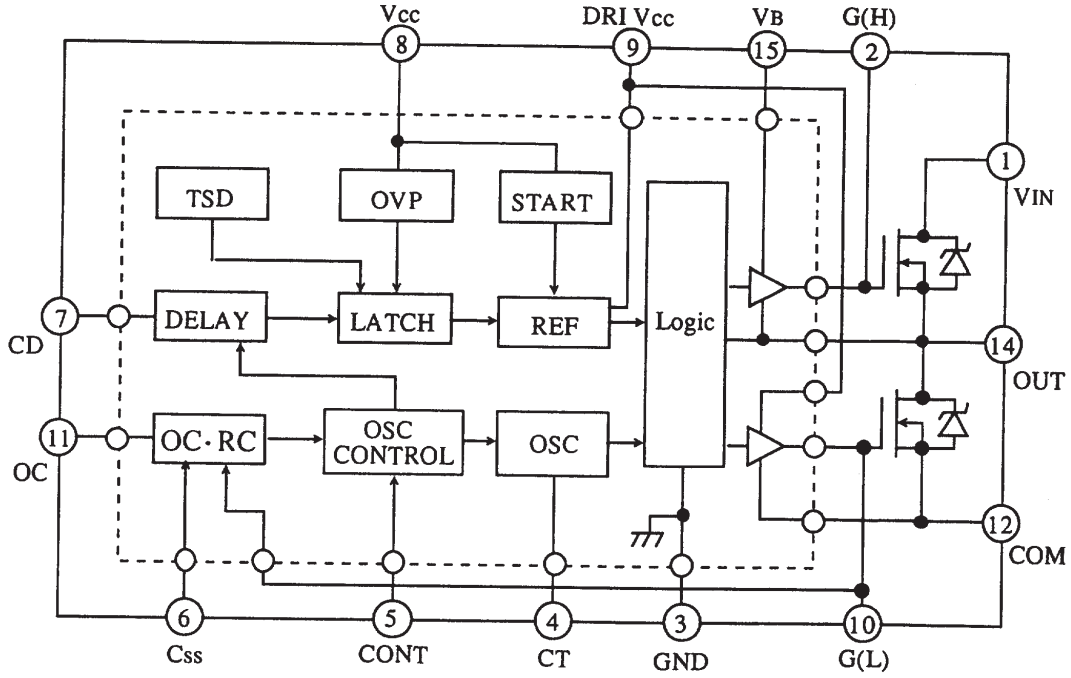
● MPC948FA <Clock Driver, IC1302>



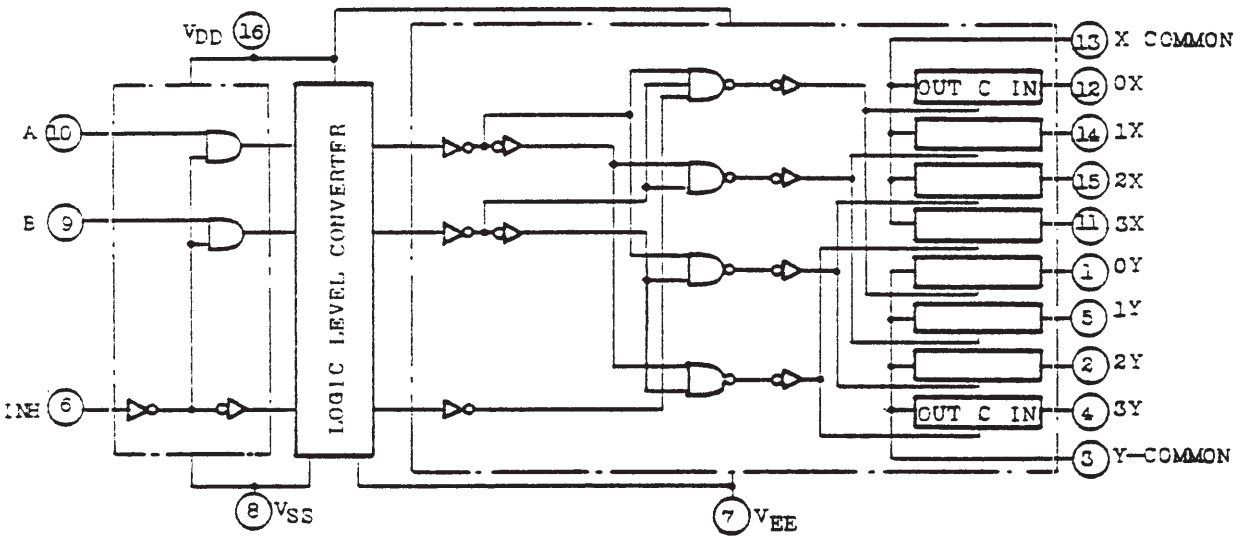
● PW264 <System Control & Scan Converter, IC301>



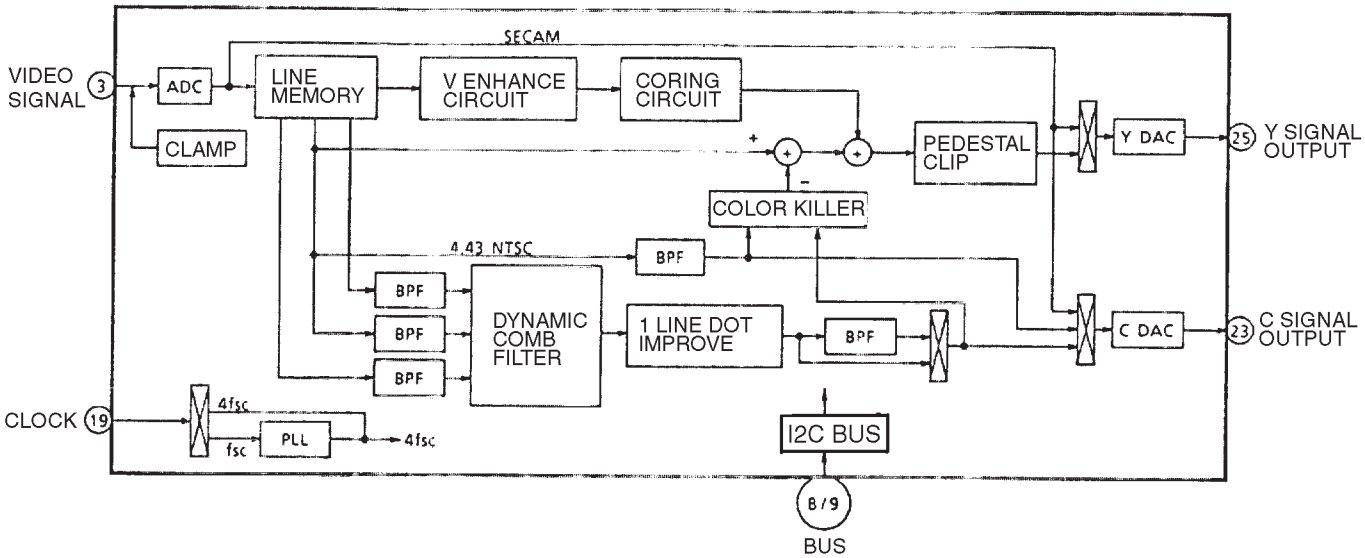
● STR-Z2156 <Power SWitching Control, IC631>



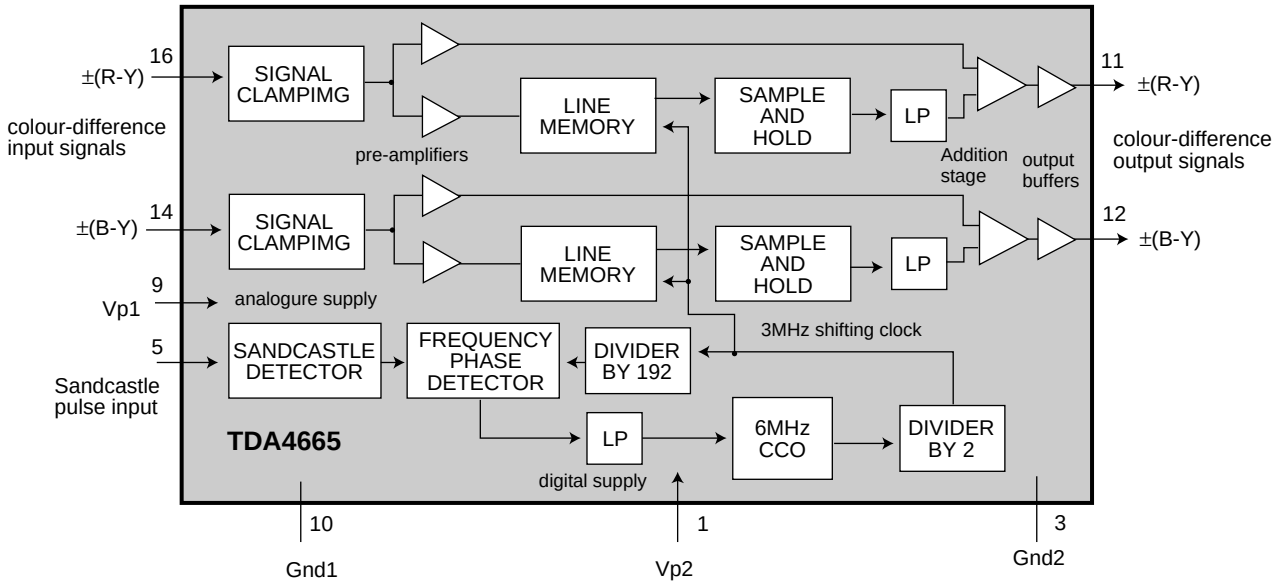
● TC4053BP <Switching, IC101, IC3001, IC3002, IC3571, IC5001, IC5282, IC6101,IC6151>



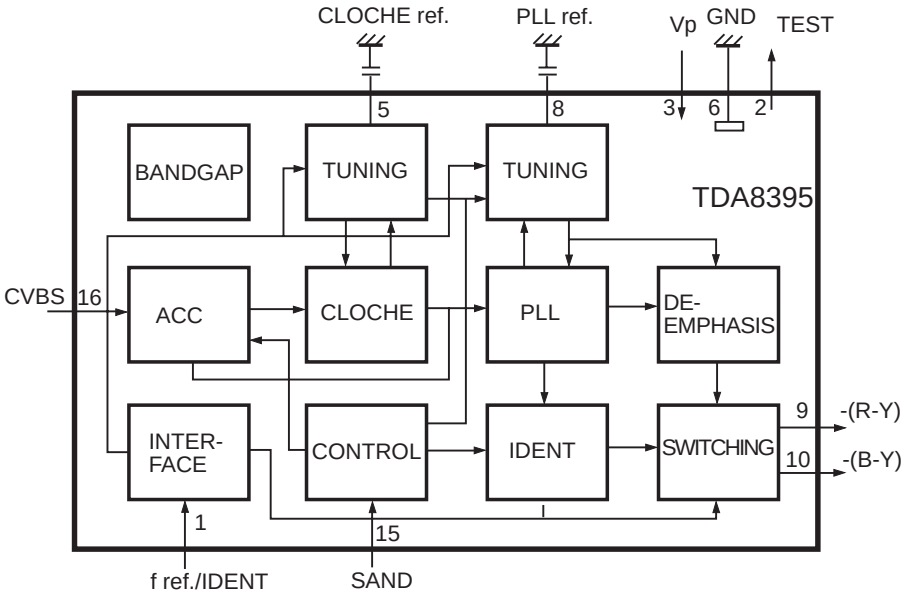
● TC9090AF <3-Line Y/C Separator, IC2101>



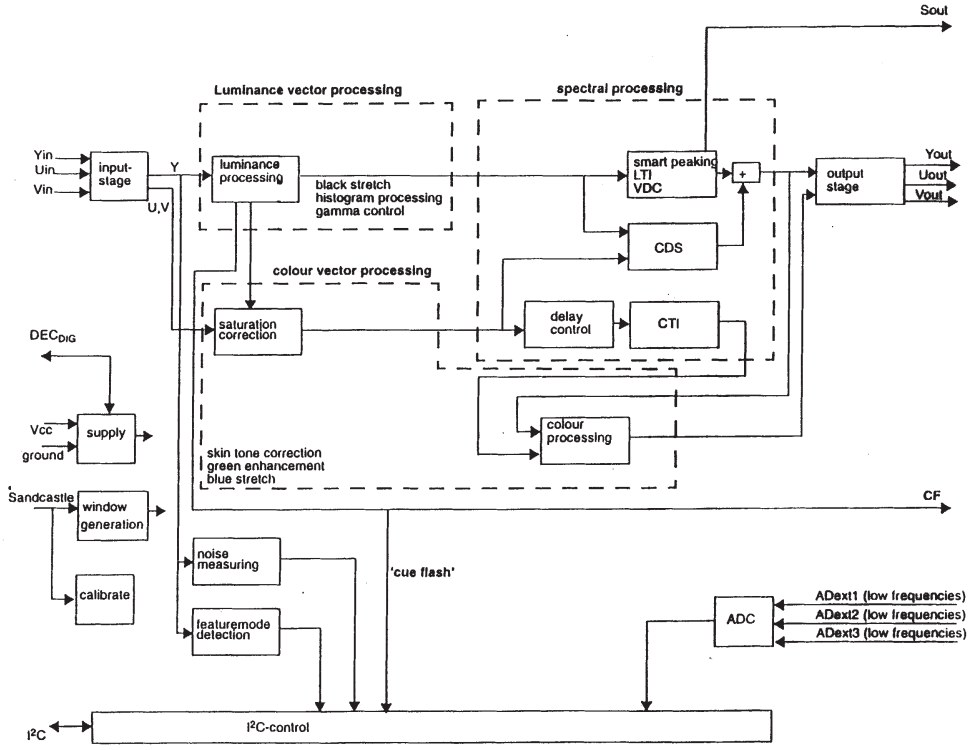
● TDA4665T <1H Delay Line, IC181>



● TDA8395T <SECAM Decoder, IC161>

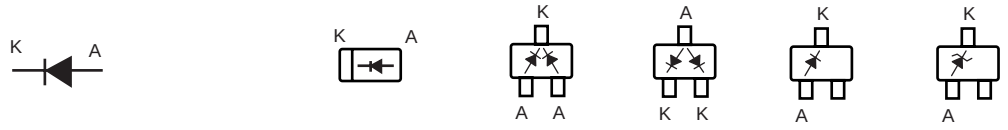


● TDA9178T <Picture Improvement, IC121>

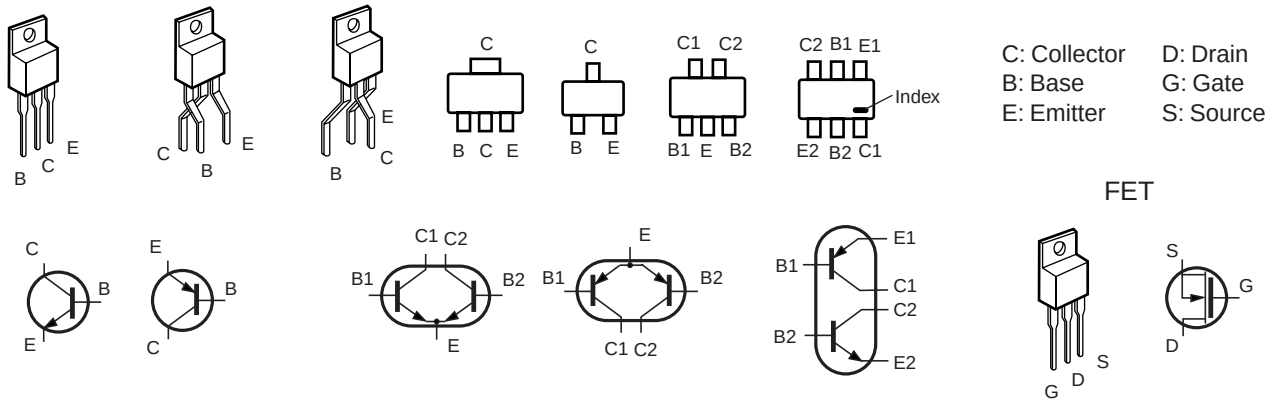


■ Pin description of diode, transistor and IC

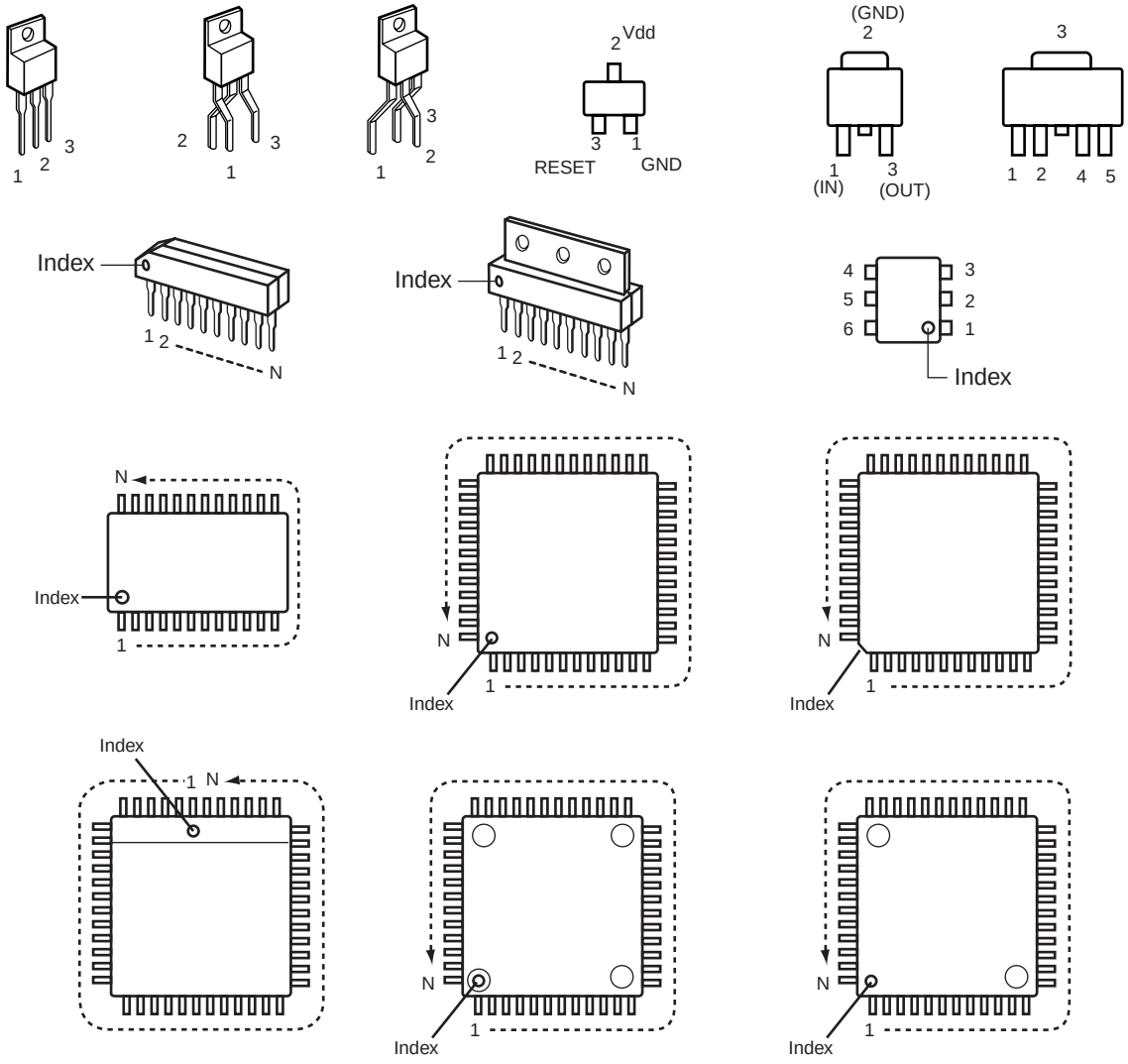
● Diode



● Transistor/FET



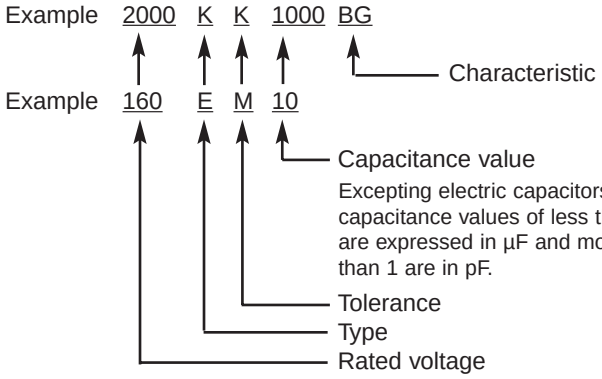
● IC



■ Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading



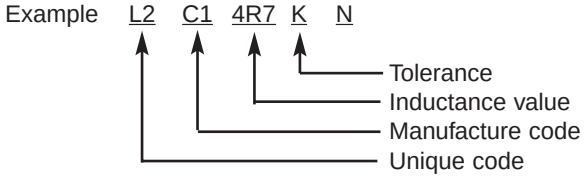
● Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypromylar
B	Ceramic (semiconductor)
G	Metalized polyestel
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

● Tolerance table

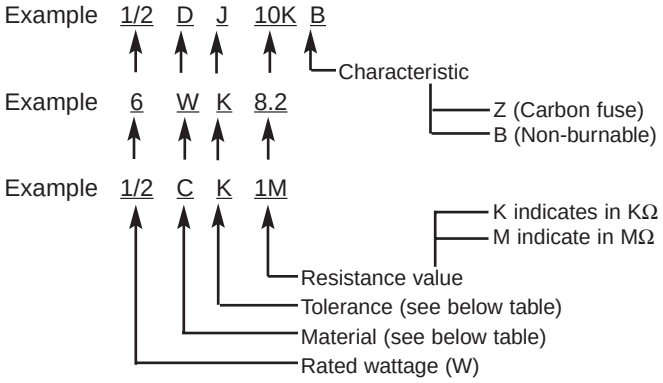
Mark	Tolerance
A	not specified
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
E	±2.5
H	±3
J	±5
K	± 0
M	±20
N	±30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

● Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

● Tolerance table

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

● Diode

Mark	Type number
R	1S2076A,1S2473,1N4148
AA	1S2076A,1S2473,1SS133,1N4148

● Transistor

(1) NPN type

Mark	Type number				
--	2SC536	2SC945A	2SC1815	2SC1740S	
AD	NF, NG	PA, QA, RA	Y, GR	Q, R, S	
AE	NF, NG	PA, QA	O, Y, GR	Q, R, S	

(2) PNP type

Mark	Type number				
--	2SA608	2SA564A	2SA1015	2SA933S	
AB	NF	R	Y, GR	R	
AC	NF	Q, R	O, Y, GR	Q, R	

(3) Chip type

Mark	Type number				
--	2SA1179	2SA1037K	2SA1037AK	2SC2812	2SC2412K
AJ	M6, M7	R, S	R, S		
AH				L6, L7	R, S

■ Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector.
Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10pF

A : Not specified	B : ±0.1pF	C : ±0.25pF
D : ±0.5pF	E : +0 -1pF	F : ±1PF
G : ±2pF	H : +0.1 -0pF	L : +0 -0.1pF
R : ±0.25 -0pF	S : +0-0.25pF	

More than 10pF

A : Not specified	B : ±0.1%	C : ±0.25%
D : ±0.5%	F : ±1%	G : ±2%
H : ±3%	J : ±5%	K : ±10%
L : ±15%	M : ±20%	N : ±30%
P : +100-0%	Q : +30-10%	T : +50-10%
U : +75-10%	V : +20-10%	W : +100-10%
X : +40-20%	Y : +150-10%	Z : +80-20%

- 100P — Rated value: P=pico farad, U=micro farad
- CERAMIC — Material:

CERAMIC	Ceramic
MT-PAPER	Metallized Paper
POLYESTER	Polyester
MT-POLYEST	Metallized Polyester
POLYPRO	Polypropylene
MT-POLYPRO	Metallized Polypropylene
COMPO FILM	Composite film
MT-COMPO	Metallized Composite
STYRENE	Styrene
TA-SOLID	Tantalum Oxide Solid Electrolytic
AL-SOLID	Aluminium Solid Electrolytic
ELECT	Aluminum Foil Electrolytic
NP-ELECT	Non-polarised Electrolytic
OS-SOLID	Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID	Polymerized Organic Semiconductive
DL-ELECT	Double Layered Electrolytic
PPS-FILM	Polyphenylene Sulfide Film
MT-PPS-FILM	Metalized Polyphenylene Sulfide Film
MT-PEN-FILM	Metalized Polyethylenenaphthalate Film
CAPACITOR	Other

RESISTOR CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols:
  A: General B: Non flammable Z: Low noise
  Other: Temperature coefficient

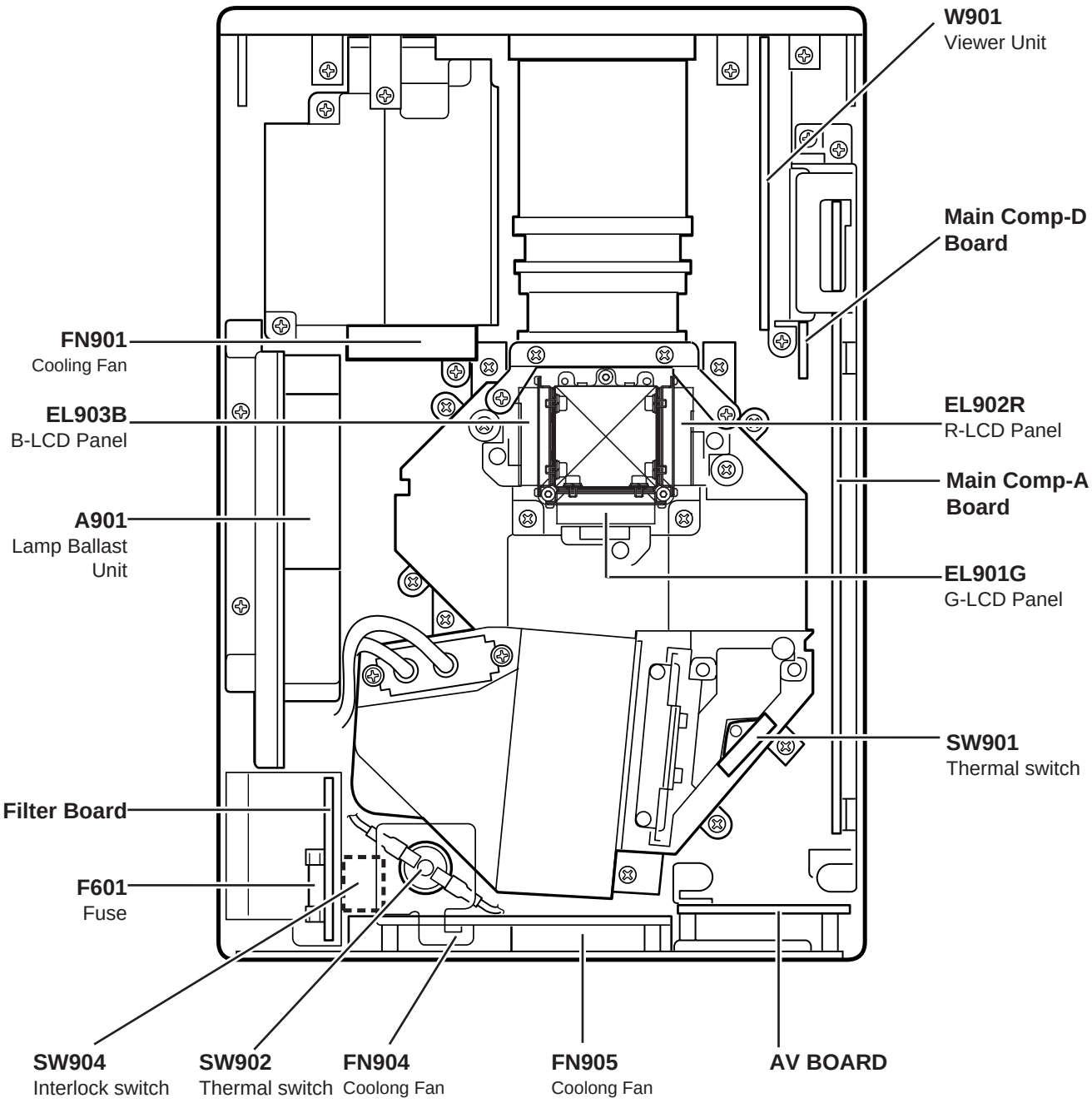
T: ±10ppm/°C	U: ±25ppm/°C	C: ±50ppm/°C
D: ±100ppm/°C	E: ±200ppm/°C	F: ±250ppm/°C
G: ±350ppm/°C	H: ±1000ppm/°C±10%	W: ±1200ppm/°C±10%
Y: ±1400ppm/°C±10%	J: ±2000ppm/°C±10%	K: ±2400ppm/°C±10%
L: ±2700ppm/°C±10%	M: ±3000ppm/°C±10%	N: ±3300ppm/°C±10%
P: ±3600ppm/°C±10%	Q: ±3900ppm/°C±10%	R: ±4200ppm/°C±10%
S: ±4300ppm/°C±10%	V: ±4500ppm/°C±10%	X: ±8000ppm/°C±10%

- J — Tolerance Symbols:
  A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
  F: ±1% G: ±2% J: ±5% K: ±10%
  M: ±20% P: +5-15% Z: 0 ohm
- 4.7K — Rated value, ohms:
  K: 1,000, M: 1,000,000
- CARBON — Material:

CARBON	Carbon
MT-FILM	Metal Film
OXIDE-MT	Oxide Metal Film
SOLID	Composition
MT-GLAZE	Metal Glaze
WIRE WOUND	Wire Wound
CERAMIC RES.	Ceramic
FUSIBLE RES.	Fusible
RESISTOR	Other

Note: Parts order must contain Service Ref. No., Part No., and Descriptions.

● OUT OF CIRCUIT BOARD



Ref. No.	Part No.	Description
OUT OF CIRCUIT BOARDS		
⚠ LP900	610 280 6939	LAMP ASSY (POA-LMP21J)
L901	645 003 3810	CORE,FERRITE
L902	645 003 3834	CORE,FERRITE
L903	645 003 3834	CORE,FERRITE
L904	645 003 3810	CORE,FERRITE
MISCELLANEOUS		
⚠ A901	645 036 4655	UNIT,BALLAST
EL901G	645 039 2979	LCD(P09XG250(G))
	645 039 2948	LCD(P09XG260(G))
EL902R	645 039 2986	LCD(P09XG260(R))
	645 039 2955	LCD(P09XG250(R))
EL903B	645 039 2993	LCD(P09XG260(B))
	645 039 2962	LCD(P09XG250(B))
⚠ FN901	645 038 1577	MOTOR,FAN DC 1.4W
⚠ FN902	645 038 1591	MOTOR,FAN DC 2.2W
⚠ FN903	645 038 1591	MOTOR,FAN DC 2.2W
⚠ FN904	645 038 1584	MOTOR,FAN DC 2.04W
⚠ FN905	645 038 1584	MOTOR,FAN DC 2.04W
SP901	645 030 6150	SPEAKER,8
⚠ SW901	645 039 7301	SWITCH,REED
⚠ SW902	645 026 5457	SWITCH,THERMAL
⚠ SW904	645 024 8986	SWITCH,PUSH 2P-2TX2
W901	645 039 2245	UNIT,VIEWER

610 286 1556 ASSY,PWB,POWER MB6A
1AA0B10C225AA

TRANSISTOR					
Q641	405 002 0308	TR 2SA1037K T146 R			
Q661	405 014 4509	TR 2SC2412K T146 R			
Q662	405 014 4509	TR 2SC2412K T146 R			
Q663	405 014 4509	TR 2SC2412K T146 R			
Q67A	405 014 4509	TR 2SC2412K T146 R			
Q671	405 138 1309	TR 2SB1565-E			
	405 138 1408	TR 2SB1565-F			
Q672	405 014 4509	TR 2SC2412K T146 R			
Q68A	405 014 4509	TR 2SC2412K T146 R			
Q681	405 156 0209	TR 2SK2376			
Q686	405 002 0308	TR 2SA1037K T146 R			
Q69A	405 014 4509	TR 2SC2412K T146 R			
Q691	405 014 4509	TR 2SC2412K T146 R			
INTEGRATED CIRCUIT					
IC001	409 073 1509	IC AN5265			
IC5501	409 114 4803	IC LB1641			
IC5551	409 114 4803	IC LB1641			
IC631	409 421 4701	IC STR-Z2156			
IC656	409 344 6509	IC UPC1093T-E1			
IC66A	409 461 7809	IC PQ20WZ11			
IC67A	409 461 7809	IC PQ20WZ11			
IC68A	409 461 7809	IC PQ20WZ11			
IC69A	409 461 7809	IC PQ20WZ11			
CAPACITOR					
C001	403 148 0305	ELECT	470U	M	16V
C002	403 049 0008	ELECT	1U	M	50V
C003	403 049 0008	ELECT	1U	M	50V
C004	403 044 9501	ELECT	100U	M	25V
C005	403 041 8804	ELECT	10U	M	16V
C006	403 044 9501	ELECT	100U	M	25V
C007	403 070 2606	CERAMIC	0.1U	Z	50V
C008	403 044 9501	ELECT	100U	M	25V
C5501	403 148 0305	ELECT	470U	M	16V
C5502	403 069 9500	CERAMIC	0.01U	Z	50V
C5503	403 069 9500	CERAMIC	0.01U	Z	50V
C5551	403 148 0305	ELECT	470U	M	16V
C5552	403 069 9500	CERAMIC	0.01U	Z	50V
C5553	403 069 9500	CERAMIC	0.01U	Z	50V
C63A	403 323 8706	MT-POLYEST	0.047U	K	450V
C630	403 156 9000	ELECT	2.2U	M	50V
C631	403 237 7901	MT-COMPO	0.22U	J	50V
C632	403 069 1702	CERAMIC	1000P	K	50V
C633	403 165 8803	CERAMIC	330P	K	2K
C634	403 070 2606	CERAMIC	0.1U	Z	50V
C635	403 167 8603	CERAMIC	220P	K	2K
C636	403 083 4307	POLYPRO	0.022U	J	400V
C637	403 074 9502	CERAMIC	680P	K	50V
C638	403 156 8805	ELECT	1U	M	50V
C639	403 148 1807	ELECT	220U	M	35V
C640	403 070 2606	CERAMIC	0.1U	Z	50V
C641	403 269 5906	CERAMIC	0.22U	K	16V
C642	403 070 2606	CERAMIC	0.1U	Z	50V
C643	403 166 9809	TA-SOLID	0.47U	M	25V
C648	404 059 9203	CERAMIC	1000P	M	400V
C649	404 059 9203	CERAMIC	1000P	M	400V
C651	403 350 5006	ELECT	1000U	M	25V
C652	403 350 5303	ELECT	3900U	M	10V
C653	403 155 5607	ELECT	220U	M	10V
C654TM	403 076 2006	CERAMIC	330P	K	500V
C655TM	403 076 2006	CERAMIC	330P	K	500V
C656	403 256 0808	MT-COMPO	0.47U	J	50V
C66A	403 069 9500	CERAMIC	0.01U	Z	50V
C66B	403 069 9500	CERAMIC	0.01U	Z	50V
C66C	403 148 0305	ELECT	470U	M	16V
C67A	403 069 9500	CERAMIC	0.01U	Z	50V
C67B	403 069 9500	CERAMIC	0.01U	Z	50V
C67C	403 148 0305	ELECT	470U	M	16V
C671	403 047 5005	ELECT	470U	M	25V
C676	403 069 9500	CERAMIC	0.01U	Z	50V
C68A	403 069 9500	CERAMIC	0.01U	Z	50V
C68B	403 069 9500	CERAMIC	0.01U	Z	50V
C68C	403 148 0305	ELECT	470U	M	16V
C683	403 038 2006	ELECT	100U	M	6.3V
C685	403 038 2006	ELECT	100U	M	6.3V
C687	403 038 2006	ELECT	100U	M	6.3V
C69A	403 069 9500	CERAMIC	0.01U	Z	50V
C69B	403 069 9500	CERAMIC	0.01U	Z	50V
C69C	403 148 0305	ELECT	470U	M	16V
C691	403 042 3006	ELECT	100U	M	16V
C692	403 042 3006	ELECT	100U	M	16V
C694	403 042 3006	ELECT	100U	M	16V
C695	403 042 3006	ELECT	100U	M	16V
RESISTOR					
R001	401 037 5004	MT-GLAZE	0.000	ZA	1/10W
R002	401 037 9309	MT-GLAZE	18K	JA	1/10W
R003	401 037 7909	MT-GLAZE	1.5K	JA	1/10W
R004	401 038 2200	MT-GLAZE	27K	JA	1/10W
R005	401 110 8601	MT-GLAZE	1	JA	1/10W
R006	401 037 5400	MT-GLAZE	1K	JA	1/10W
R007	401 069 0305	OXIDE-MT	6.8	JA	2W
	401 069 0404	OXIDE-MT	6.8	JA	2W
R008	401 037 9101	MT-GLAZE	180	JA	1/10W
R011	401 037 5004	MT-GLAZE	0.000	ZA	1/10W
R012	401 037 5004	MT-GLAZE	0.000	ZA	1/10W
R5501	401 038 3603	MT-GLAZE	3.3K	JA	1/10W
R5502	401 038 3603	MT-GLAZE	3.3K	JA	1/10W
R5503	401 037 5400	MT-GLAZE	1K	JA	1/10W
R5504	401 037 5004	MT-GLAZE	0.000	ZA	1/10W
R5506	401 037 5004	MT-GLAZE	0.000	ZA	1/10W

Ref. No.	Part No.	Description
R5507	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5551	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R5552	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R5553	401 037 5400	MT-GLAZE 1K JA 1/10W
R5554	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5556	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5557	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R63A	401 275 2902	MT-GLAZE 68K JA 1W
R63B	401 275 2902	MT-GLAZE 68K JA 1W
R631	401 069 4402	OXIDE-MT 68K JA 2W
R632	401 069 4402	OXIDE-MT 68K JA 2W
⚠ R633	402 079 7803	FUSIBLE RES 22 JH 1/4W
R634	401 238 4509	MT-GLAZE 47 JA 1/3W
R635	401 037 5400	MT-GLAZE 1K JA 1/10W
R636	401 257 7406	MT-GLAZE 120 JA 1/3W
R637	401 037 5608	MT-GLAZE 10K JA 1/10W
R638	401 037 5202	MT-GLAZE 100 JA 1/10W
R639	401 105 9705	MT-GLAZE 220 JA 1/3W
R641	401 037 5400	MT-GLAZE 1K JA 1/10W
R642	401 037 5707	MT-GLAZE 100K JA 1/10W
R643	401 037 8005	MT-GLAZE 15K JA 1/10W
R644	401 038 0909	MT-GLAZE 220K JA 1/10W
R645	401 038 9308	MT-GLAZE 68K JA 1/10W
R646	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R654	401 038 2002	MT-GLAZE 270 JA 1/10W
R655	401 037 5400	MT-GLAZE 1K JA 1/10W
R656	401 037 5608	MT-GLAZE 10K JA 1/10W
R657	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R658	401 037 5103	MT-GLAZE 10 JA 1/10W
R659	401 037 5400	MT-GLAZE 1K JA 1/10W
R66F	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R66G	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R66H	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R66J	401 038 0107	MT-GLAZE 2K JA 1/10W
R660	401 038 3504	MT-GLAZE 330 JA 1/10W
R661	401 037 5608	MT-GLAZE 10K JA 1/10W
R662	401 037 6803	MT-GLAZE 12K JA 1/10W
R663	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R664	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R665	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R666	401 037 9309	MT-GLAZE 18K JA 1/10W
R667	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R67D	401 102 7506	MT-GLAZE 22 JA 1W
R67E	401 198 7701	MT-GLAZE 33 JA 1W
R67G	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R67H	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R67J	401 038 0107	MT-GLAZE 2K JA 1/10W
R67K	401 037 8005	MT-GLAZE 15K JA 1/10W
R67L	401 038 7809	MT-GLAZE 56K JA 1/10W
R67M	401 037 5608	MT-GLAZE 10K JA 1/10W
R671	401 238 4400	MT-GLAZE 2.7K JA 1/3W
R672	401 238 4202	MT-GLAZE 1.5K JA 1/3W
R673	401 038 7809	MT-GLAZE 56K JA 1/10W
R674	401 037 5707	MT-GLAZE 100K JA 1/10W
R68A	401 162 6501	MT-GLAZE 82 JA 1W
R68B	401 162 6501	MT-GLAZE 82 JA 1W
R68C	401 162 6501	MT-GLAZE 82 JA 1W
R68D	401 203 1106	MT-GLAZE 8.2 JA 1W
R68E	401 203 1106	MT-GLAZE 8.2 JA 1W
R68G	401 038 1302	MT-GLAZE 2.4K JA 1/10W
R68H	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R68J	401 038 0107	MT-GLAZE 2K JA 1/10W
R68K	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R68L	401 038 7809	MT-GLAZE 56K JA 1/10W
R68M	401 037 5608	MT-GLAZE 10K JA 1/10W
R681	401 038 0800	MT-GLAZE 22K JA 1/10W
R682	401 037 5707	MT-GLAZE 100K JA 1/10W
R686	401 038 0800	MT-GLAZE 22K JA 1/10W
R69D	401 102 7407	MT-GLAZE 10 JA 1W
R69E	401 102 7407	MT-GLAZE 10 JA 1W
R69G	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R69H	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R69J	401 038 0107	MT-GLAZE 2K JA 1/10W
R69K	401 038 3702	MT-GLAZE 33K JA 1/10W
R69L	401 038 7809	MT-GLAZE 56K JA 1/10W
R69M	401 037 5608	MT-GLAZE 10K JA 1/10W
R69PTM	401 026 4308	CARBON 3.3K JA 1/6W
R691	401 037 5608	MT-GLAZE 10K JA 1/10W
R692	401 037 5608	MT-GLAZE 10K JA 1/10W
R693	401 037 5608	MT-GLAZE 10K JA 1/10W
R694	401 037 5608	MT-GLAZE 10K JA 1/10W
R695	401 037 5608	MT-GLAZE 10K JA 1/10W
R696	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R697	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
TRANSFORMER		
⚠ T651	645 030 7126	TRANS,POWER,PULSE
COIL		
L671	645 007 8125	INDUCTOR,47U K
L683	645 007 8118	INDUCTOR,390U K
L685	645 007 7975	INDUCTOR,100U K
L687	645 007 8125	INDUCTOR,47U K
DIODE		
D001	407 058 0509	ZENER DIODE RD9.1M-T2BB2
	407 058 0608	ZENER DIODE RD9.1M-T2BB3
	407 190 6209	ZD 02CZ9.1Y(TE85R)
	407 190 3505	ZD 02CZ9.1Z(TE85R)
D002	407 071 6502	ZENER DIODE DZD5.1Y-TA
	407 175 3407	ZD 02CZ5.1Y(TE85R)
D5501	407 217 0302	ZD 02CZ3.6X(TE85R)
	407 175 3100	ZD 02CZ3.6Z(TE85R)
D5551	407 071 6502	ZENER DIODE DZD5.1Y-TA
	407 175 3407	ZD 02CZ5.1Y(TE85R)
D631	407 071 0104	ZENER DIODE DZD12Y-TA
	407 054 4204	ZENER DIODE RD12M-T2BB2
	407 175 2806	ZD 02CZ12Y(TE85R)
D632	407 190 4106	DIODE SFPL-52V
D633	407 100 6909	DIODE AG01
D634	407 125 5307	ZENER DIODE RD27M-T1BB
	407 140 0608	ZENER DIODE 02CZ27-TE85L
D635	407 190 4106	DIODE SFPL-52V
D636	407 149 0807	DIODE 1SS355-TE-17
D641	407 149 0807	DIODE 1SS355-TE-17
D642	407 056 9306	ZENER DIODE RD5.1M-T1BB2
	407 056 9405	ZENER DIODE RD5.1M-T2BB3
D651	407 202 9808	DIODE FMB-26L
D651B	411 174 4808	SCR S-TPG PAN+SWW 3X8
D651H	610 273 6472	HEAT SINK C-M6RA
D652	407 164 2206	DIODE FMB-24L
D652B	411 174 4808	SCR S-TPG PAN+SWW 3X8
D653	407 190 4106	DIODE SFPL-52V
D656	407 071 7806	ZENER DIODE DZD6.8Z-TA
D660	407 101 5109	ZD 02CZ4.7Y(TE85R)
D661	407 149 0807	DIODE 1SS355-TE-17
D662	407 149 0807	DIODE 1SS355-TE-17
D663	407 149 0807	DIODE 1SS355-TE-17
D664	407 149 0807	DIODE 1SS355-TE-17
D665	407 149 0807	DIODE 1SS355-TE-17
D666	407 149 0807	DIODE 1SS355-TE-17
D667	407 149 0807	DIODE 1SS355-TE-17
D668	407 149 0807	DIODE 1SS355-TE-17
D669	407 149 0807	DIODE 1SS355-TE-17
D691	407 004 0706	DIODE DCB015-TB

Ref. No.	Part No.	Description
D692	407 004 0706	DIODE DCB015-TB
D693	407 004 0706	DIODE DCB015-TB
MISCELLANEOUS		
⚠ PC641	408 039 3502	PC TLP721F(D4-GB)
⚠ PC642	408 039 3502	PC TLP721F(D4-GB)
⚠ PC643	408 039 3502	PC TLP721F(D4-GB)
⚠ PC644	408 039 3502	PC TLP721F(D4-GB)

610 284 5198 ASSY P.F.C.MA6A SERVICE 1AASB10C2250B

ASSY,PWB,P.F. MA6A

Ref. No.	Part No.	Description
TRANSISTOR		
Q611	405 140 3704	TR 2SK2698
CAPACITOR		
C611	403 165 6007	CERAMIC 1000P K 1K
C612	403 165 6007	CERAMIC 1000P K 1K
C613	403 126 4608	ELECT 100U M 25V
C616	403 275 6003	MT-POLYEST 1.5U J 400V
C617	403 119 8002	ELECT 470U M 25V
C618	404 081 6003	ELECT 150U M 450V
C619	403 323 8706	MT-POLYEST 0.047U K 450V
RESISTOR		
R611	401 105 9705	MT-GLAZE 220 JA 1/3W
R612	402 079 1900	RESISTER 0.22 JA 2W
R613	402 079 1900	RESISTER 0.22 JA 2W
R614	401 237 0007	MT-GLAZE 47K JA 1W
R615	401 237 0007	MT-GLAZE 47K JA 1W
R616	401 237 0007	MT-GLAZE 47K JA 1W
R617	401 237 0007	MT-GLAZE 47K JA 1W
R618	401 038 5508	MT-GLAZE 4.7 JA 1/10W
R620	401 242 3901	MT-GLAZE 240K JA 1/2W
R621	401 242 3901	MT-GLAZE 240K JA 1/2W
R622	401 259 9002	MT-GLAZE 150K FA 1/2W
R623	401 259 9002	MT-GLAZE 150K FA 1/2W
R624	401 259 9002	MT-GLAZE 150K FA 1/2W
R625	401 259 9002	MT-GLAZE 150K FA 1/2W
COIL		
L611	645 039 9749	INDUCTOR,1800U
L615TM	610 031 9998	PIPE CORE
DIODE		
DB611	407 202 7705	DIODE D10XB60
DB611B	411 001 8900	SCR BIN 3X8
DB611H	610 281 2275	HEAT SINK B-MA6A
DB611H1	645 022 0081	SPACER
DS611	407 175 2400	THYRISTOR CR12AM-12
DS611B	411 174 4808	SCR S-TPG PAN+SWW 3X8
D611	407 174 2302	DIODE AK06
D612	407 191 3900	DIODE FML-G16S
D612B	411 174 4808	SCR S-TPG PAN+SWW 3X8
MISCELLANEOUS		
⚠ TSW611	645 027 4145	SWITCH,THERMAL
	645 031 0256	THERMOSTATS
⚠ TSW611B	411 179 6203	SCR S-TPG PAN+SWW 3X6
FB611	610 229 3531	CORE
FB612	610 229 3531	CORE
⚠ PTH611	408 037 5607	THERMISTOR NTH11D8R0LC

ASSY,PWB,HIC MA6A

Ref. No.	Part No.	Description
TRANSISTOR		
Q01	405 014 4509	TR 2SC2412K T146 R
Q02	405 002 0308	TR 2SA1037K T146 R
INTEGRATED CIRCUIT		
IC01	409 406 7000	IC FA5331M
CAPACITOR		
C01	403 074 9502	CERAMIC 680P K 50V
C02	403 075 2304	CERAMIC 0.068U Z 50V
C03	403 070 2606	CERAMIC 0.1U Z 50V
C04	403 030 7009	CERAMIC 68P J 50V
C05	403 069 5601	CERAMIC 0.01U K 50V
C06	403 073 7301	CERAMIC 470P K 50V
C07	403 073 1200	CERAMIC 0.033U K 50V
C08	403 072 3403	CERAMIC 0.022U Z 50V
C10	403 070 2606	CERAMIC 0.1U Z 50V
C11	403 070 2606	CERAMIC 0.1U Z 50V
RESISTOR		
R01	401 038 0800	MT-GLAZE 22K JA 1/10W
R02	401 037 5608	MT-GLAZE 10K JA 1/10W
R03	401 037 9507	MT-GLAZE 1.8M JA 1/10W
R04	401 038 0503	MT-GLAZE 22 JA 1/10W
R05	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R06	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R07	401 038 3504	MT-GLAZE 330 JA 1/10W
R08	401 037 5202	MT-GLAZE 100 JA 1/10W
R09	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R11	401 038 6604	MT-GLAZE 470K JA 1/10W
R12	401 038 0909	MT-GLAZE 220K JA 1/10W
R13	401 148 2701	MT-GLAZE 1.1K FA 1/10W
R14	401 092 3304	MT-GLAZE 1.2K FA 1/10W
VARIABLE RESISTOR		
VR01	645 041 5333	VR,SEMI,1K M
DIODE		
D01	407 004 1000	DIODE DCC010-TB
D02	407 004 1000	DIODE DCC010-TB

610 280 5833 ASSY,PWB,LINE FILTER MA6A 1AA0B10C2250C

Ref. No.	Part No.	Description
CAPACITOR		
⚠ C601	404 081 4702	MT-POLYEST 0.22U M 275V
⚠ C602	404 081 4702	MT-POLYEST 0.22U M 275V
⚠ C603	404 081 4702	MT-POLYEST 0.22U M 275V
⚠ C604	404 081 4702	MT-POLYEST 0.22U M 275V
⚠ C606	404 059 9203	CERAMIC 1000P M 400V
RESISTOR		
⚠ R601	401 008 8607	CARBON 220K JA 1/2W
VARIABLE RESISTOR		
⚠ VA601	408 018 9808	VARISTOR ENC471D-14AS
COIL		
⚠ L601	645 025 7827	LINE FILTER
⚠ L602	645 025 7827	LINE FILTER
MISCELLANEOUS		
⚠ F601	423 022 2102	FUSE 250V 4A
F601A	645 000 5077	HOLDER,FUSE
F601B	645 000 5077	HOLDER,FUSE
⚠ K601	645 000 2793	SOCKET,INLET AC

Ref. No.	Part No.	Description
610 281 8123 ASSY,PWB,R/C MA6A 1AA0B10C2250D		
CAPACITOR		
C2851	403 316 5408	CERAMIC 1U K 10V
C2852	403 073 7301	CERAMIC 470P K 50V
RESISTOR		
RC2851	645 028 1044	UNIT,REMOCON RECEIVER
R2851	401 037 5202	MT-GLAZE 100 JA 1/10W
R2852	401 037 5202	MT-GLAZE 100 JA 1/10W
610 281 8130 ASSY,PWB,VIEWER LED MA6G 1AA0B10C2250E		
RESISTOR		
R7901	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
DIODE		
D7901	407 203 7704	LED SML-210DT T86 L
610 280 5871 ASSY,PWB,AV MA6A 1AA0B10C2260A		
TRANSISTOR		
Q2001	405 014 4509	TR 2SC2412K T146 R
Q2002	405 014 4509	TR 2SC2412K T146 R
Q2003	405 014 4509	TR 2SC2412K T146 R
INTEGRATED CIRCUIT		
IC1001	409 461 7304	IC AD8057ART
IC1002	409 461 7304	IC AD8057ART
CAPACITOR		
C1001	403 348 5803	CERAMIC 0.47U K 10V
C1002	407 149 0807	DIODE 1SS355-TE-17
C1003	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C1006	403 157 3601	CERAMIC 100P J 50V
C1007	403 157 1904	CERAMIC 10P D 50V
C1008	403 157 1904	CERAMIC 10P D 50V
C1009	403 162 4006	ELECT 22U M 6.3V
C1011	403 164 0204	CERAMIC 0.1U Z 25V
C1012	403 162 4006	ELECT 22U M 6.3V
C1013	403 164 0204	CERAMIC 0.1U Z 25V
C1081	403 149 9208	CERAMIC 0.01U Z 50V
C2001	403 175 4505	ELECT 47U M 6.3V
C2002	403 348 5803	CERAMIC 0.47U K 10V
C2003	403 175 4505	ELECT 47U M 6.3V
C2004	403 348 5803	CERAMIC 0.47U K 10V
C2006	403 162 4006	ELECT 22U M 6.3V
C2801	403 283 6309	CERAMIC 1U Z 10V
C2802	403 157 6602	CERAMIC 470P K 50V
RESISTOR		
RC2801	645 034 8501	UNIT,REMOCON RECEIVER
R1001	401 037 7800	MT-GLAZE 150 JA 1/10W
R1002	401 037 7800	MT-GLAZE 150 JA 1/10W
R1003	401 037 7800	MT-GLAZE 150 JA 1/10W
R1004	401 037 7800	MT-GLAZE 150 JA 1/10W
R1006	401 037 7800	MT-GLAZE 150 JA 1/10W
R1007	401 037 7800	MT-GLAZE 150 JA 1/10W
R1021	401 037 5202	MT-GLAZE 100 JA 1/10W
R1024	401 105 0504	MT-GLAZE 1K JA 1/16W
R1026	401 203 9805	MT-GLAZE 2.7K FA 1/16W
R1027	401 247 0202	MT-GLAZE 3.9K FA 1/16W
R1028	401 037 5202	MT-GLAZE 100 JA 1/10W
R1031	401 105 0603	MT-GLAZE 10K JA 1/16W
R1032	401 105 0504	MT-GLAZE 1K JA 1/16W
R1033	401 203 9805	MT-GLAZE 2.7K FA 1/16W
R1034	401 247 0202	MT-GLAZE 3.9K FA 1/16W
R1036	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1037	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1038	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1039	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1041	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1042	401 105 0405	MT-GLAZE 100 JA 1/16W
R1043	401 105 0405	MT-GLAZE 100 JA 1/16W
R1044	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1046	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1047	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2001	401 105 0603	MT-GLAZE 10K JA 1/16W
R2002	401 105 0405	MT-GLAZE 100 JA 1/16W
R2003	401 037 7800	MT-GLAZE 150 JA 1/10W
R2004	401 037 7800	MT-GLAZE 150 JA 1/10W
R2006	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2007	401 037 7800	MT-GLAZE 150 JA 1/10W
R2008	401 037 7800	MT-GLAZE 150 JA 1/10W
R2009	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2011	401 037 7800	MT-GLAZE 150 JA 1/10W
R2012	401 037 7800	MT-GLAZE 150 JA 1/10W
R2013	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2014	401 105 5509	MT-GLAZE 470K JA 1/16W
R2016	401 105 0405	MT-GLAZE 100 JA 1/16W
R2017	401 105 5509	MT-GLAZE 470K JA 1/16W
R2018	401 105 0405	MT-GLAZE 100 JA 1/16W
R2021	401 105 5509	MT-GLAZE 470K JA 1/16W
R2022	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2023	401 105 5509	MT-GLAZE 470K JA 1/16W
R2024	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2026	401 105 0702	MT-GLAZE 100K JA 1/16W
R2027	401 105 0405	MT-GLAZE 100 JA 1/16W
R2029	401 105 0405	MT-GLAZE 100 JA 1/16W
R2031	401 105 0702	MT-GLAZE 100K JA 1/16W
R2032	401 105 0306	MT-GLAZE 10 JA 1/16W
R2033	401 105 0603	MT-GLAZE 10K JA 1/16W
R2034	401 105 5202	MT-GLAZE 470 JA 1/16W
R2036	401 105 0306	MT-GLAZE 10 JA 1/16W
R2037	401 105 0603	MT-GLAZE 10K JA 1/16W
R2038	401 105 5202	MT-GLAZE 470 JA 1/16W
R2039	401 105 0306	MT-GLAZE 10 JA 1/16W
R2041	401 105 0603	MT-GLAZE 10K JA 1/16W
R2042	401 105 5202	MT-GLAZE 470 JA 1/16W
R2043	401 105 0504	MT-GLAZE 1K JA 1/16W
R2044	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R2801	401 105 1907	MT-GLAZE 180 JA 1/16W
R2802	401 105 1907	MT-GLAZE 180 JA 1/16W
R2803	401 105 2706	MT-GLAZE 220 JA 1/16W
R2804	401 105 2706	MT-GLAZE 220 JA 1/16W
COIL		
L1001	645 024 0669	FILTER,EMI 20PF
L1002	645 024 0669	FILTER,EMI 20PF
L1003	645 024 0669	FILTER,EMI 20PF
L1007	645 002 3910	FILTER,EMI 100MHZ
L1008	645 002 3910	FILTER,EMI 100MHZ
L1009	645 002 3910	FILTER,EMI 100MHZ
L1011	645 014 2659	FILTER,EMI 10MHZ
L1012	645 014 2659	FILTER,EMI 10MHZ
L1017	645 014 2659	FILTER,EMI 10MHZ
L1018	645 014 2659	FILTER,EMI 10MHZ

Ref. No.	Part No.	Description
L1019	645 014 2659	FILTER,EMI 10MHZ
L1021	645 014 2659	FILTER,EMI 10MHZ
L1022	645 014 2659	FILTER,EMI 10MHZ
L1023	645 014 2659	FILTER,EMI 10MHZ
L1024	645 014 2659	FILTER,EMI 10MHZ
L1027	645 025 0637	FILTER,EMI 190PF
L1028	645 025 0637	FILTER,EMI 190PF
L2001	645 008 4904	INDUCTOR,5.6U K
	645 040 2906	INDUCTOR,5.6U K
L2002	645 008 4904	INDUCTOR,5.6U K
	645 040 2906	INDUCTOR,5.6U K
L2003	645 014 2659	FILTER,EMI 10MHZ
L2004	645 002 3910	FILTER,EMI 100MHZ
L2006	645 002 3910	FILTER,EMI 100MHZ
L2007	645 002 3910	FILTER,EMI 100MHZ
L2008	645 014 2659	FILTER,EMI 10MHZ
L2009	645 014 2659	FILTER,EMI 10MHZ
L2011	645 008 4904	INDUCTOR,5.6U K
	645 040 2906	INDUCTOR,5.6U K
L2021	645 014 2659	FILTER,EMI 10MHZ
L2022	645 014 2659	FILTER,EMI 10MHZ
L2023	645 014 2659	FILTER,EMI 10MHZ
L2024	645 014 2659	FILTER,EMI 10MHZ
DIODE		
D1001	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1002	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1003	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1004	407 149 0807	DIODE 1SS355-TE-17
D1006	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1007	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1008	407 149 0807	DIODE 1SS355-TE-17
D1009	407 149 0807	DIODE 1SS355-TE-17
D1011	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1012	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1013	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1014	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1016	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1017	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1018	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1019	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1021	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1022	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1023	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1024	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1025	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1026	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1027	407 149 0807	DIODE 1SS355-TE-17
D1028	407 149 0807	DIODE 1SS355-TE-17
D2001	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2002	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D2003	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D2004	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D2006	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D2007	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D2008	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D2009	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2011	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2012	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2013	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2021	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D2022	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D2023	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D2024	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D2026	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2027	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2028	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2029	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2801	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D2802	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
MISCELLANEOUS		
K1001	645 009 8093	SOCKET,D-SUB 15P
K1002	645 009 8093	SOCKET,D-SUB 15P
K1003	645 000 2595	SOCKET,DIN 8P
K2001	645 030 6297	SOCKET,DIN 4P
	645 016 0806	SOCKET,DIN 4P
K2002	645 038 4462	JACK,RCA-3
K2003	645 000 2571	JACK,PHONE D8.0
K2004	645 000 2571	JACK,PHONE D8.0

610 280 5888 ASSY,PWB,AV SUB MA6A 1AA0B10C2260B

TRANSISTOR		
Q3001	405 014 4509	TR 2SC2412K T146 R
Q3002	405 014 4509	TR 2SC2412K T146 R
Q3003	405 014 4509	TR 2SC2412K T146 R
Q5001	405 014 4509	TR 2SC2412K T146 R
Q5002	405 014 4509	TR 2SC2412K T146 R
Q5003	405 014 4509	TR 2SC2412K T146 R
Q5004	405 014 4509	TR 2SC2412K T146 R
Q5007	405 014 4509	TR 2SC2412K T146 R
Q5008	405 014 4509	TR 2SC2412K T146 R
INTEGRATED CIRCUIT		
IC3001	409 464 1408	IC TC74ACT14FT
IC3002	409 461 7403	IC LT1399CS
IC3031	409 417 1400	IC CXA2016S
IC3801	410 275 5707	IC TWM7000-162020
	410 275 5806	IC TWM7000-162020
IC3841	410 296 5700	IC TWM7000-151020
IC3861	410 296 2402	IC TMP47C101M-JV45
IC3862	409 344 1900	IC MN1382-Q-TX
IC3871	409 380 6303	IC HIN232CB
	409 273 3501	IC SP232ACT
IC5001	409 051 2900	IC TC4053BF-TP1
CAPACITOR		
C3001	403 157 1508	CERAMIC 3P C 50V
C3002	403 157 1508	CERAMIC 3P C 50V
C3003	403 157 1508	CERAMIC 3P C 50V
C3009	403 162 4006	ELECT 22U M 6.3V
C3011	403 162 4006	ELECT 22U M 6.3V
C3012	403 283 6309	CERAMIC 1U Z 10V
C3013	403 205 7803	TA-SOLID 2.2U M 16V
C3014	403 283 6309	CERAMIC 1U Z 10V
C3016	403 162 4006	ELECT 22U M 6.3V
C3017	403 283 6309	CERAMIC 1U Z 10V
C3018	403 162 4006	ELECT 22U M 6.3V
C3019	403 283 6309	CERAMIC 1U Z 10V
C3032	403 205 7803	TA-SOLID 2.2U M 16V
C3033	403 325 6304	CERAMIC 0.22U K 10V
C3034	403 325 6304	CERAMIC 0.22U K 10V
C3036	403 091 0209	TA-SOLID 1U M 16V
C3037	403 298 9609	CERAMIC 0.1U K 16V
C3038	403 325 6304	CERAMIC 0.22U K 10V
C3039	403 091 0209	TA-SOLID 1U M 16V
C3042	403 298 9609	CERAMIC 0.1U K 16V
C3043	403 162 4709	ELECT 10U M 16V
C3044	403 298 9609	CERAMIC 0.1U K 16V
C3047	403 155 2200	CERAMIC 3300P K 50V
C3048	403 298 9609	CERAMIC 0.1U K 16V

Ref. No.	Part No.	Description
C3049	403 298 9609	CERAMIC 0.1U K 16V
C3802	403 283 6309	CERAMIC 1U Z 10V
C3841	403 283 6309	CERAMIC 1U Z 10V
C3842	403 283 6309	CERAMIC 1U Z 10V
C3844	403 283 6309	CERAMIC 1U Z 10V
C3861	403 283 6309	CERAMIC 1U Z 10V
C3864	403 162 6208	ELECT 1U M 50V
C3867	403 283 6309	CERAMIC 1U Z 10V
C3871	403 283 6309	CERAMIC 1U Z 10V
C3881	403 162 6208	ELECT 1U M 50V
C3882	403 162 6208	ELECT 1U M 50V
C3883	403 162 6208	ELECT 1U M 50V
C3884	403 162 6208	ELECT 1U M 50V
C5001	403 205 7803	TA-SOLID 2.2U M 16V
C5002	403 205 7803	TA-SOLID 2.2U M 16V
C5003	403 205 7803	TA-SOLID 2.2U M 16V
C5004	403 205 7803	TA-SOLID 2.2U M 16V
C5006	403 205 7803	TA-SOLID 2.2U M 16V
C5007	403 343 8809	CERAMIC 0.47U Z 16V
C5008	403 343 8809	CERAMIC 0.47U Z 16V
C5009	403 162 4709	ELECT 10U M 16V
C5011	403 343 8809	CERAMIC 0.47U Z 16V
C5012	403 162 4709	ELECT 10U M 16V
C5013	403 162 4709	ELECT 10U M 16V
RESISTOR		
RB3841	645 025 5380	R-NETWORK 10KX4 1/16W
	645 026 8014	R-NETWORK 10KX4 1/16W
RB3861	645 025 5380	R-NETWORK 10KX4 1/16W
	645 026 8014	R-NETWORK 10KX4 1/16W
R3001	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R3002	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R3003	401 038 9506	MT-GLAZE 75 JA 1/10W
R3004	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R3006	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R3007	401 038 9506	MT-GLAZE 75 JA 1/10W
R3008	401 038 9506	MT-GLAZE 75 JA 1/10W
R3009	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R3011	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R3012	401 105 3208	MT-GLAZE 270 JA 1/16W
R3013	401 105 3208	MT-GLAZE 270 JA 1/16W
R3014	401 105 3208	MT-GLAZE 270 JA 1/16W
R3016	401 105 3208	MT-GLAZE 270 JA 1/16W
R3017	401 105 0504	MT-GLAZE 1K JA 1/16W
R3018	401 105 3208	MT-GLAZE 270 JA 1/16W
R3019	401 105 0504	MT-GLAZE 1K JA 1/16W
R3021	401 105 3208	MT-GLAZE 270 JA 1/16W
R3022	401 105 0504	MT-GLAZE 1K JA 1/16W
R3023	401 105 0306	MT-GLAZE 10 JA 1/16W
R3026	401 038 8905	MT-GLAZE 68 JA 1/10W
R3027	401 038 8905	MT-GLAZE 68 JA 1/10W
R3031	401 105 2607	MT-GLAZE 22 JA 1/16W
R3036	401 105 0405	MT-GLAZE 100 JA 1/16W
R3038	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3040	401 105 0405	MT-GLAZE 100 JA 1/16W
R3042	401 105 4205	MT-GLAZE 33K JA 1/16W
R3043	401 105 2706	MT-GLAZE 220 JA 1/16W
R3045	401 105 0405	MT-GLAZE 100 JA 1/16W
R3046	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3047	401 211 9903	MT-GLAZE 12K FA 1/16W
R3048	401 211 9903	MT-GLAZE 12K FA 1/16W
R3052	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3055	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3056	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3059	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3060	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3061	401 105 2805	MT-GLAZE 2.2K JA 1/16W

Ref. No.	Part No.	Description
R3068	401 105 5806	MT-GLAZE 56 JA 1/16W
R3069	401 105 5806	MT-GLAZE 56 JA 1/16W
R3070	401 105 5806	MT-GLAZE 56 JA 1/16W
R3071	401 105 0306	MT-GLAZE 10 JA 1/16W
R3072	401 105 0306	MT-GLAZE 10 JA 1/16W
R3074	401 105 0306	MT-GLAZE 10 JA 1/16W
R3801	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3806	401 105 0405	MT-GLAZE 100 JA 1/16W
R3811	401 105 0603	MT-GLAZE 10K JA 1/16W
R3812	401 105 0603	MT-GLAZE 10K JA 1/16W
R3813	401 105 0603	MT-GLAZE 10K JA 1/16W
R3814	401 105 0603	MT-GLAZE 10K JA 1/16W
R3816	401 105 0603	MT-GLAZE 10K JA 1/16W
R3841	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3851	401 105 0603	MT-GLAZE 10K JA 1/16W
R3852	401 105 4205	MT-GLAZE 33K JA 1/16W
R3861	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3862	401 105 0603	MT-GLAZE 10K JA 1/16W
R3863	401 105 0603	MT-GLAZE 10K JA 1/16W
R3864	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3866	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3867	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3871	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3882	401 105 0405	MT-GLAZE 100 JA 1/16W
R3883	401 105 0603	MT-GLAZE 10K JA 1/16W
R3884	401 105 0405	MT-GLAZE 100 JA 1/16W
R3886	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3891	401 105 0405	MT-GLAZE 100 JA 1/16W
R5001	401 105 0702	MT-GLAZE 100K JA 1/16W
R5002	401 105 0702	MT-GLAZE 100K JA 1/16W
R5003	401 105 0702	MT-GLAZE 100K JA 1/16W
R5004	401 105 0702	MT-GLAZE 100K JA 1/16W
R5006	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R5007	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R5008	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5009	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5011	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R5013	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5014	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5016	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R5017	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R5018	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5021	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5022	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5023	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5024	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5026	401 038 9001	MT-GLAZE 680 JA 1/10W
R5027	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5028	401 038 9001	MT-GLAZE 680 JA 1/10W
R5029	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5031	401 105 5202	MT-GLAZE 470 JA 1/16W
R5036	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5037	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
COIL		
L3001	645 020 1776	INDUCTOR,3.3U M
L3002	645 020 1776	INDUCTOR,3.3U M
DIODE		
D3851	407 179 1706	ZENER DIODE UDZ5.1B-TE-17
D3882	407 149 0807	DIODE 1SS355-TE-17
D5001	407 149 0807	DIODE 1SS355-TE-17
D5002	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
X3801	645 021 1218	OSC,CERAMIC 8.00MHZ
	645 037 5187	OSC,CERAMIC 8.00MHZ
X3841	645 021 1218	OSC,CERAMIC 8.00MHZ

Ref. No.	Part No.	Description
	645 037 5187	OSC,CERAMIC 8.00MHZ
X3861	645 024 8566	OSC,CERAMIC 6.00MHZ
	645 037 5217	OSC,CERAMIC 6.00MHZ

610 281 8154 ASSY,PWB,KEY SW MA6A 1AA0B10C24200

CAPACITOR

C6801	403 068 0409	CERAMIC 0.1U Z 25V
C6802	403 068 0409	CERAMIC 0.1U Z 25V
C6803	403 068 0409	CERAMIC 0.1U Z 25V

RESISTOR

R6801	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R6803	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R6804	401 037 8005	MT-GLAZE 15K JA 1/10W
R6805	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R6806	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R6807	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R6808	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R6809	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R6811	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R6812	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R6814	401 038 0800	MT-GLAZE 22K JA 1/10W
R6815	401 037 8005	MT-GLAZE 15K JA 1/10W
R6816	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R6817	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R6818	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R6819	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R6821	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R6822	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R6823	401 037 5004	MT-GLAZE 0.000 ZA 1/10W

DIODE

D6801	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D6802	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D6803	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D6804	407 179 0501	ZENER DIODE UDZ6.2B-TE-17

MISCELLANEOUS

SW6801	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6802	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6803	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6804	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6805	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6806	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6807	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6808	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6811	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6812	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6813	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6814	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6815	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6816	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6817	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6818	645 026 2791	SWITCH,PUSH 1P-1TX1

610 286 4939 ASSY,PWB,MAIN_A SERVICE 1AASB10C245AA

ASSY,PWB,MAIN COMP.MB6G_AA

TRANSISTOR

Q111	405 134 5905	TR 2SA1037AK-T146-R
Q1112	405 014 4509	TR 2SC2412K T146 R
Q1113	405 014 4509	TR 2SC2412K T146 R
Q1114	405 014 4509	TR 2SC2412K T146 R
Q1116	405 014 4509	TR 2SC2412K T146 R
Q1117	405 014 4509	TR 2SC2412K T146 R
Q1118	405 014 4509	TR 2SC2412K T146 R
Q1133	405 134 5905	TR 2SA1037AK-T146-R
Q116	405 134 5905	TR 2SA1037AK-T146-R
Q1171	405 134 5905	TR 2SA1037AK-T146-R
Q121	405 134 5905	TR 2SA1037AK-T146-R
Q126	405 134 5905	TR 2SA1037AK-T146-R
Q151	405 014 4509	TR 2SC2412K T146 R
Q161	405 014 4509	TR 2SC2412K T146 R
Q5201	405 134 5905	TR 2SA1037AK-T146-R
Q5202	405 134 5905	TR 2SA1037AK-T146-R
Q5203	405 134 5905	TR 2SA1037AK-T146-R
Q5211	405 014 4509	TR 2SC2412K T146 R
Q6101	405 134 5905	TR 2SA1037AK-T146-R
Q6111	405 134 5905	TR 2SA1037AK-T146-R
Q6112	405 134 5905	TR 2SA1037AK-T146-R
Q6113	405 134 5905	TR 2SA1037AK-T146-R
Q6114	405 014 4509	TR 2SC2412K T146 R
Q6115	405 014 4509	TR 2SC2412K T146 R
Q6116	405 014 4509	TR 2SC2412K T146 R
Q6121	405 014 4509	TR 2SC2412K T146 R
Q6123	405 014 4509	TR 2SC2412K T146 R
Q6131	405 014 4509	TR 2SC2412K T146 R
Q6146	405 014 4509	TR 2SC2412K T146 R

INTEGRATED CIRCUIT

IC101	409 211 7301	IC MC14053BFL
	409 051 2900	IC TC4053BF-TP1
IC1101	409 404 3509	IC CXA2076Q
IC121	409 436 3706	IC TDA9178T/N1
IC1301	409 428 7101	IC AV9155C
IC1302	409 428 7606	IC MPC948FA
IC141	409 350 3400	IC LT1253CS8
IC161	409 408 4205	IC TDA8395T/N3
IC171	409 463 9306	IC EL5244CS
IC181	409 383 1602	IC TDA4665T/V4-T
	409 435 3806	IC TDA4665T/V5T
IC1821	410 348 7409	IC TC74LCX125FT(EL)
IC1822	410 348 7508	IC TC7WT241FU(TE12L)
IC202	410 353 1805	IC AD9884AKS-140
IC2200	410 308 6404	IC MB40988PFQ-G-MSBND
IC2211	409 429 6400	IC AD8055ART
IC2221	409 429 6400	IC AD8055ART
IC2231	409 429 6400	IC AD8055ART
IC226	409 416 6406	IC BA033FP-E2
IC3001	409 211 7301	IC MC14053BFL
	409 051 2900	IC TC4053BF-TP1
IC3002	409 211 7301	IC MC14053BFL
	409 051 2900	IC TC4053BF-TP1
IC301	409 465 0103	IC PW264
IC302	409 339 3605	IC 24LC16BT/SN-T
IC331	409 461 8202	IC ER-ICS502MT
IC5201	409 407 7900	IC EL4332CS
IC5251	409 429 6400	IC AD8055ART
IC5252	409 429 6400	IC AD8055ART
IC5253	409 429 6400	IC AD8055ART
IC5281	409 431 6009	IC MC74VHC14DT
	410 356 8009	IC SN74LV14APWR
IC5282	409 211 7301	IC MC14053BFL
	409 051 2900	IC TC4053BF-TP1
IC5283	410 354 6304	IC SN74LVC126APWR
IC6101	409 211 7301	IC MC14053BFL
	409 051 2900	IC TC4053BF-TP1

Ref. No.	Part No.	Description
IC7001	410 321 8300	IC TC74VCX16244FT
IC7002	410 321 8300	IC TC74VCX16244FT
IC7081	409 241 9405	IC L88MS05T-TL
IC7201	409 202 1400	IC MC14538BF-L1
IC804	409 418 8606	IC M66230FP-200D
IC805	410 352 8508	IC IDT71V016S15PHTR
IC806	410 362 1803	IC MBM29LV800TA90NB616
IC808	409 428 8405	IC TC7WT125FU-TE12L
IC809	410 311 5708	IC MC74HCT244ADT
	410 315 5506	IC HD74HCT244TV
	410 356 7507	IC SN74HCT244PWR
IC825	409 416 6406	IC BA033FP-E2
CAPACITOR		
C101	403 164 0204	CERAMIC 0.1U Z 25V
C102	403 175 4505	ELECT 47U M 6.3V
C103	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C104	403 164 0204	CERAMIC 0.1U Z 25V
C105	403 164 0204	CERAMIC 0.1U Z 25V
C106	403 149 9208	CERAMIC 0.01U Z 50V
C108	403 149 9208	CERAMIC 0.01U Z 50V
C1103	403 164 0204	CERAMIC 0.1U Z 25V
C1104	403 164 0204	CERAMIC 0.1U Z 25V
C1105	403 164 0204	CERAMIC 0.1U Z 25V
C1106	403 175 4109	ELECT 22U M 16V
C1107	403 164 0204	CERAMIC 0.1U Z 25V
C1111	403 157 2109	CERAMIC 13P J 50V
C1112	403 157 2000	CERAMIC 11P J 50V
C1113	403 157 2000	CERAMIC 11P J 50V
C1114	403 157 2109	CERAMIC 13P J 50V
C1121	403 149 9208	CERAMIC 0.01U Z 50V
C1131	403 266 8207	NP-ELECT 10U M 16V
C1132	403 266 8207	NP-ELECT 10U M 16V
C1133	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1134	403 162 4709	ELECT 10U M 16V
C1135	403 343 8809	CERAMIC 0.47U Z 16V
C1136	403 164 0204	CERAMIC 0.1U Z 25V
C1137	403 164 0204	CERAMIC 0.1U Z 25V
C1138	403 162 4709	ELECT 10U M 16V
C1139	403 215 2201	CERAMIC 0.01U K 50V
C1141	403 164 0204	CERAMIC 0.1U Z 25V
C1142	403 164 0204	CERAMIC 0.1U Z 25V
C1143	403 164 0204	CERAMIC 0.1U Z 25V
C1165	403 149 9208	CERAMIC 0.01U Z 50V
C1166	403 149 9208	CERAMIC 0.01U Z 50V
C1167	403 149 9208	CERAMIC 0.01U Z 50V
C1171	403 215 2201	CERAMIC 0.01U K 50V
C1172	403 164 0204	CERAMIC 0.1U Z 25V
C1173	403 164 0204	CERAMIC 0.1U Z 25V
C1174	403 164 0204	CERAMIC 0.1U Z 25V
C1176	403 164 0204	CERAMIC 0.1U Z 25V
C1181	403 155 2309	CERAMIC 4700P K 50V
C1182	403 215 2201	CERAMIC 0.01U K 50V
C1183	403 162 6208	ELECT 1U M 50V
C1184	403 164 0204	CERAMIC 0.1U Z 25V
C1185	403 164 0204	CERAMIC 0.1U Z 25V
C1186	403 224 7006	CERAMIC 0.047U Z 50V
C1191	403 157 6602	CERAMIC 470P K 50V
C1192	403 343 8809	CERAMIC 0.47U Z 16V
C121	403 175 4109	ELECT 22U M 16V
C122	403 164 0204	CERAMIC 0.1U Z 25V
C126	403 164 0204	CERAMIC 0.1U Z 25V
C1301	403 164 0204	CERAMIC 0.1U Z 25V
C1302	403 280 0508	ELECT 470U M 4V
C1303	403 164 0204	CERAMIC 0.1U Z 25V
C1304	403 164 0204	CERAMIC 0.1U Z 25V
C1305	403 164 0204	CERAMIC 0.1U Z 25V
C1306	403 155 1609	CERAMIC 33P J 50V
C1311	403 164 0204	CERAMIC 0.1U Z 25V
C1312	403 164 0204	CERAMIC 0.1U Z 25V
C1313	403 164 0204	CERAMIC 0.1U Z 25V
C1314	403 164 0204	CERAMIC 0.1U Z 25V
C1315	403 164 0204	CERAMIC 0.1U Z 25V
C1316	403 164 0204	CERAMIC 0.1U Z 25V
C1317	403 164 0204	CERAMIC 0.1U Z 25V
C141	403 164 0204	CERAMIC 0.1U Z 25V
C143	403 164 0204	CERAMIC 0.1U Z 25V
C146	403 155 1609	CERAMIC 33P J 50V
C152	403 164 0204	CERAMIC 0.1U Z 25V
C153	403 224 7006	CERAMIC 0.047U Z 50V
C161	403 164 0204	CERAMIC 0.1U Z 25V
C162	403 162 4709	ELECT 10U M 16V
C163	403 164 0204	CERAMIC 0.1U Z 25V
C164	403 164 0204	CERAMIC 0.1U Z 25V
C166	403 164 0204	CERAMIC 0.1U Z 25V
C167	403 145 9905	CERAMIC 22P J 50V
C171	403 162 4709	ELECT 10U M 16V
C172	403 164 0204	CERAMIC 0.1U Z 25V
C176	403 162 4709	ELECT 10U M 16V
C177	403 162 4709	ELECT 10U M 16V
C181	403 162 4709	ELECT 10U M 16V
C182	403 164 0204	CERAMIC 0.1U Z 25V
C183	403 162 4709	ELECT 10U M 16V
C184	403 164 0204	CERAMIC 0.1U Z 25V
C186	403 164 0204	CERAMIC 0.1U Z 25V
C187	403 164 0204	CERAMIC 0.1U Z 25V
C202	403 162 4709	ELECT 10U M 16V
C203	403 164 0204	CERAMIC 0.1U Z 25V
C204	403 164 0204	CERAMIC 0.1U Z 25V
C211	403 215 2201	CERAMIC 0.01U K 50V
C212	403 298 9609	CERAMIC 0.1U K 16V
	403 325 3303	CERAMIC 0.1U K 16V
C213	403 298 9609	CERAMIC 0.1U K 16V
	403 325 3303	CERAMIC 0.1U K 16V
C215	403 298 9609	CERAMIC 0.1U K 16V
	403 325 3303	CERAMIC 0.1U K 16V
C2201	403 164 0204	CERAMIC 0.1U Z 25V
C2202	403 208 1402	TA-SOLID 1U M 25V
C2203	403 164 0204	CERAMIC 0.1U Z 25V
C2204	403 164 0204	CERAMIC 0.1U Z 25V
C2206	403 322 7809	ELECT 220U M 6.3V
C2207	403 164 0204	CERAMIC 0.1U Z 25V
C2211	403 153 9102	CERAMIC 5P C 50V
C2221	403 153 9102	CERAMIC 5P C 50V
C2231	403 153 9102	CERAMIC 5P C 50V
C226	403 164 0204	CERAMIC 0.1U Z 25V
C227	403 175 4109	ELECT 22U M 16V
C228	403 164 0204	CERAMIC 0.1U Z 25V
C3001	403 164 0204	CERAMIC 0.1U Z 25V
C3002	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C3003	403 164 0204	CERAMIC 0.1U Z 25V
C3004	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C301	403 162 4709	ELECT 10U M 16V
C302	403 164 0204	CERAMIC 0.1U Z 25V
C304	403 164 0204	CERAMIC 0.1U Z 25V
C311	403 280 0508	ELECT 470U M 4V
C312	403 164 0204	CERAMIC 0.1U Z 25V
C313	403 280 0508	ELECT 470U M 4V
C314	403 164 0204	CERAMIC 0.1U Z 25V
C331	403 149 9208	CERAMIC 0.01U Z 50V

Ref. No.	Part No.	Description
C5201	403 164 0204	CERAMIC 0.1U Z 25V
C5211	403 157 2505	CERAMIC 27P J 50V
C5212	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C5213	403 149 9208	CERAMIC 0.01U Z 50V
C5214	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C5216	403 149 9208	CERAMIC 0.01U Z 50V
C5217	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C5221	403 157 2505	CERAMIC 27P J 50V
C5222	403 304 2105	ELECT 47U M 6.3V
C5223	403 304 2105	ELECT 47U M 6.3V
C5224	403 304 2105	ELECT 47U M 6.3V
C5231	403 157 2505	CERAMIC 27P J 50V
C5251	403 164 0204	CERAMIC 0.1U Z 25V
C5252	403 322 7809	ELECT 220U M 6.3V
C5253	403 157 1904	CERAMIC 10P D 50V
C5255	403 155 2200	CERAMIC 3300P K 50V
C5256	403 157 2901	CERAMIC 47P J 50V
C5257	403 322 7809	ELECT 220U M 6.3V
C5258	403 164 0204	CERAMIC 0.1U Z 25V
C5263	403 157 1904	CERAMIC 10P D 50V
C5265	403 155 2200	CERAMIC 3300P K 50V
C5266	403 157 2901	CERAMIC 47P J 50V
C5273	403 157 1904	CERAMIC 10P D 50V
C5275	403 155 2200	CERAMIC 3300P K 50V
C5276	403 157 2901	CERAMIC 47P J 50V
C5283	403 155 1609	CERAMIC 33P J 50V
C5284	403 149 9208	CERAMIC 0.01U Z 50V
C5286	403 164 0204	CERAMIC 0.1U Z 25V
C5287	403 164 0204	CERAMIC 0.1U Z 25V
C5288	403 157 3809	CERAMIC 120P J 50V
C6101	403 162 4709	ELECT 10U M 16V
C6102	403 162 4709	ELECT 10U M 16V
C6103	403 162 4709	ELECT 10U M 16V
C6121	403 113 3805	CERAMIC 1000P K 50V
C6122	403 325 4706	CERAMIC 0.047U K 25V
C6136	403 162 6208	ELECT 1U M 50V
C7003	403 175 0606	ELECT 100U M 6.3V
C7004	403 175 0606	ELECT 100U M 6.3V
C7005	403 164 0204	CERAMIC 0.1U Z 25V
C7011	403 164 0204	CERAMIC 0.1U Z 25V
C7012	403 164 0204	CERAMIC 0.1U Z 25V
C7013	403 164 0204	CERAMIC 0.1U Z 25V
C7014	403 164 0204	CERAMIC 0.1U Z 25V
C7016	403 164 0204	CERAMIC 0.1U Z 25V
C7017	403 164 0204	CERAMIC 0.1U Z 25V
C7081	403 322 7809	ELECT 220U M 6.3V
C7082	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C7083	403 322 7809	ELECT 220U M 6.3V
C7084	403 164 0204	CERAMIC 0.1U Z 25V
C7201	403 348 5803	CERAMIC 0.47U K 10V
C7203	403 162 4709	ELECT 10U M 16V
C7204	403 149 9208	CERAMIC 0.01U Z 50V
C7207	403 162 6000	ELECT 0.47U M 50V
C824	403 164 0204	CERAMIC 0.1U Z 25V
C825	403 155 1609	CERAMIC 33P J 50V
C826	403 155 1609	CERAMIC 33P J 50V
C831	403 175 3300	ELECT 47U M 16V
C832	403 164 0204	CERAMIC 0.1U Z 25V
C833	403 164 0204	CERAMIC 0.1U Z 25V
C834	403 322 7809	ELECT 220U M 6.3V
C835	403 164 0204	CERAMIC 0.1U Z 25V
C836	403 164 0204	CERAMIC 0.1U Z 25V
C837	403 164 0204	CERAMIC 0.1U Z 25V
C846	403 175 0606	ELECT 100U M 6.3V
C847	403 149 9208	CERAMIC 0.01U Z 50V
C848	403 149 9208	CERAMIC 0.01U Z 50V
C849	403 175 0606	ELECT 100U M 6.3V
RESISTOR		
RB856	645 026 8038	R-NETWORK 22KX4 1/16W
RB883	645 026 8038	R-NETWORK 22KX4 1/16W
R101	401 189 8304	MT-GLAZE 180 JA 1/3W
R102	401 189 8304	MT-GLAZE 180 JA 1/3W
R103	401 105 0603	MT-GLAZE 10K JA 1/16W
R104	401 105 0603	MT-GLAZE 10K JA 1/16W
R105	401 105 0603	MT-GLAZE 10K JA 1/16W
R106	401 105 0603	MT-GLAZE 10K JA 1/16W
R108	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R109	401 105 0405	MT-GLAZE 100 JA 1/16W
R111	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1111	401 105 5905	MT-GLAZE 560 JA 1/16W
R1112	401 105 8104	MT-GLAZE 56K JA 1/16W
R1113	401 105 8104	MT-GLAZE 56K JA 1/16W
R1114	401 105 8104	MT-GLAZE 56K JA 1/16W
R1115	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R112	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1121	401 105 8104	MT-GLAZE 56K JA 1/16W
R1122	401 105 0702	MT-GLAZE 100K JA 1/16W
R1123	401 105 0702	MT-GLAZE 100K JA 1/16W
R1124	401 105 8104	MT-GLAZE 56K JA 1/16W
R1127	401 105 0702	MT-GLAZE 100K JA 1/16W
R1128	401 105 8104	MT-GLAZE 56K JA 1/16W
R1129	401 105 8104	MT-GLAZE 56K JA 1/16W
R1139	401 105 0603	MT-GLAZE 10K JA 1/16W
R1141	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1142	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R116	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1161	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1162	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1163	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1165	401 105 0603	MT-GLAZE 10K JA 1/16W
R1166	401 105 0603	MT-GLAZE 10K JA 1/16W
R1167	401 105 0603	MT-GLAZE 10K JA 1/16W
R1168	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1169	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R117	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1171	401 105 5202	MT-GLAZE 470 JA 1/16W
R1172	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R1173	401 105 0405	MT-GLAZE 100 JA 1/16W
R1174	401 105 0405	MT-GLAZE 100 JA 1/16W
R1176	401 105 4007	MT-GLAZE 330 JA 1/16W
R1177	401 105 5400	MT-GLAZE 47K JA 1/16W
R1178	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1179	401 105 0504	MT-GLAZE 1K JA 1/16W
R1181	401 105 4502	MT-GLAZE 390 JA 1/16W
R1182	401 105 0603	MT-GLAZE 10K JA 1/16W
R1183	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R1186	401 105 4304	MT-GLAZE 330K JA 1/16W
R1187	401 105 0405	MT-GLAZE 100 JA 1/16W
R1188	401 105 5905	MT-GLAZE 560 JA 1/16W
R1191	401 105 1600	MT-GLAZE 15K JA 1/16W
R121	401 258 7504	MT-GLAZE 12 JA 1/3W
R122	401 105 0405	MT-GLAZE 100 JA 1/16W
R123	401 105 0504	MT-GLAZE 1K JA 1/16W
R125	401 105 0405	MT-GLAZE 100 JA 1/16W
R127	401 105 0504	MT-GLAZE 1K JA 1/16W
R128	401 105 0405	MT-GLAZE 100 JA 1/16W
R129	401 105 0504	MT-GLAZE 1K JA 1/16W
R1301	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1302	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Ref. No.	Part No.	Description
R1305	401 105 0603	MT-GLAZE 10K JA 1/16W
R1306	401 105 0603	MT-GLAZE 10K JA 1/16W
R1309	401 105 0603	MT-GLAZE 10K JA 1/16W
R131	401 105 0405	MT-GLAZE 100 JA 1/16W
R1312	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1314	401 105 0603	MT-GLAZE 10K JA 1/16W
R1315	401 105 0603	MT-GLAZE 10K JA 1/16W
R1316	401 105 0603	MT-GLAZE 10K JA 1/16W
R1317	401 105 0603	MT-GLAZE 10K JA 1/16W
R1318	401 105 0603	MT-GLAZE 10K JA 1/16W
R132	401 105 0702	MT-GLAZE 100K JA 1/16W
R1326	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R133	401 105 0702	MT-GLAZE 100K JA 1/16W
R134	401 105 0702	MT-GLAZE 100K JA 1/16W
R135	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R136	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R138	401 105 1402	MT-GLAZE 150 JA 1/16W
R139	401 105 1402	MT-GLAZE 150 JA 1/16W
R142	401 105 0405	MT-GLAZE 100 JA 1/16W
R143	401 105 0603	MT-GLAZE 10K JA 1/16W
R144	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R146	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R148	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R151	401 105 0603	MT-GLAZE 10K JA 1/16W
R152	401 105 0603	MT-GLAZE 10K JA 1/16W
R153	401 105 5400	MT-GLAZE 47K JA 1/16W
R154	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R156	401 230 2503	MT-GLAZE 1K FA 1/16W
R157	401 202 4009	MT-GLAZE 10K FA 1/16W
R158	401 105 0504	MT-GLAZE 1K JA 1/16W
R161	401 105 1204	MT-GLAZE 120K JA 1/16W
R162	401 105 3000	MT-GLAZE 220K JA 1/16W
R163	401 105 0405	MT-GLAZE 100 JA 1/16W
R164	401 105 0405	MT-GLAZE 100 JA 1/16W
R166	401 105 0603	MT-GLAZE 10K JA 1/16W
R167	401 105 0405	MT-GLAZE 100 JA 1/16W
R169	401 105 0405	MT-GLAZE 100 JA 1/16W
R171	401 230 2503	MT-GLAZE 1K FA 1/16W
R172	401 230 2503	MT-GLAZE 1K FA 1/16W
R173	401 257 7000	MT-GLAZE 820 FA 1/16W
R174	401 230 2503	MT-GLAZE 1K FA 1/16W
R176	401 105 5400	MT-GLAZE 47K JA 1/16W
R177	401 105 2904	MT-GLAZE 22K JA 1/16W
R178	401 105 8104	MT-GLAZE 56K JA 1/16W
R179	401 105 2904	MT-GLAZE 22K JA 1/16W
R181	401 240 7307	MT-GLAZE 8.2 JA 1/3W
R182	401 240 7307	MT-GLAZE 8.2 JA 1/3W
R1821	401 105 0603	MT-GLAZE 10K JA 1/16W
R1822	401 105 0603	MT-GLAZE 10K JA 1/16W
R1823	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1824	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R1825	401 105 5905	MT-GLAZE 560 JA 1/16W
R1826	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1827	401 105 2904	MT-GLAZE 22K JA 1/16W
R1828	401 105 8203	MT-GLAZE 68K JA 1/16W
R1829	401 105 0603	MT-GLAZE 10K JA 1/16W
R183	401 105 0504	MT-GLAZE 1K JA 1/16W
R211	401 105 0603	MT-GLAZE 10K JA 1/16W
R212	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2201	401 234 8600	MT-GLAZE 8.2K FA 1/16W
R2202	401 105 0603	MT-GLAZE 10K JA 1/16W
R2203	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2207	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2212	401 105 0504	MT-GLAZE 1K JA 1/16W
R2213	401 218 4505	MT-GLAZE 2.2K FA 1/16W
R222	401 105 0405	MT-GLAZE 100 JA 1/16W
R2222	401 105 0504	MT-GLAZE 1K JA 1/16W
R2223	401 218 4505	MT-GLAZE 2.2K FA 1/16W
R223	401 105 0405	MT-GLAZE 100 JA 1/16W
R2232	401 105 0504	MT-GLAZE 1K JA 1/16W
R2233	401 218 4505	MT-GLAZE 2.2K FA 1/16W
R2236	401 113 4402	MT-GLAZE 75 JA 1/16W
R2237	401 113 4402	MT-GLAZE 75 JA 1/16W
R2238	401 113 4402	MT-GLAZE 75 JA 1/16W
R3001	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3002	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3004	401 105 0504	MT-GLAZE 1K JA 1/16W
R3005	401 105 0405	MT-GLAZE 100 JA 1/16W
R3006	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3007	401 113 6307	MT-GLAZE 4.3K JA 1/16W
R3009	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R301	401 105 0603	MT-GLAZE 10K JA 1/16W
R3011TM	401 024 9305	CARBON 1.2K JA 1/6W
R302	401 105 0603	MT-GLAZE 10K JA 1/16W
R305	401 105 4007	MT-GLAZE 330 JA 1/16W
R3056	401 105 8005	MT-GLAZE 1M JA 1/16W
R306	401 105 6506	MT-GLAZE 680 JA 1/16W
R310	401 105 0405	MT-GLAZE 100 JA 1/16W
R311	401 105 0405	MT-GLAZE 100 JA 1/16W
R313	401 105 0603	MT-GLAZE 10K JA 1/16W
R316	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R317	401 105 0603	MT-GLAZE 10K JA 1/16W
R322	401 105 2904	MT-GLAZE 22K JA 1/16W
R326	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R329	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R332	401 105 0603	MT-GLAZE 10K JA 1/16W
R333	401 105 0603	MT-GLAZE 10K JA 1/16W
R336	401 105 0405	MT-GLAZE 100 JA 1/16W
R342	401 105 2904	MT-GLAZE 22K JA 1/16W
R344	401 105 2904	MT-GLAZE 22K JA 1/16W
R346	401 105 0405	MT-GLAZE 100 JA 1/16W
R347	401 105 0405	MT-GLAZE 100 JA 1/16W
R352	401 105 2904	MT-GLAZE 22K JA 1/16W
R354	401 105 2904	MT-GLAZE 22K JA 1/16W
R356	401 105 2904	MT-GLAZE 22K JA 1/16W
R358	401 105 2904	MT-GLAZE 22K JA 1/16W
R361	401 105 2904	MT-GLAZE 22K JA 1/16W
R362	401 105 2904	MT-GLAZE 22K JA 1/16W
R372	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R374	401 105 0603	MT-GLAZE 10K JA 1/16W
R375	401 105 0603	MT-GLAZE 10K JA 1/16W
R381	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R383	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R385	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R387	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R391	401 105 0603	MT-GLAZE 10K JA 1/16W
R393	401 105 0603	MT-GLAZE 10K JA 1/16W
R5201	401 105 0504	MT-GLAZE 1K JA 1/16W
R5202	401 105 0306	MT-GLAZE 10 JA 1/16W
R5203	401 105 0306	MT-GLAZE 10 JA 1/16W
R5204	401 105 0504	MT-GLAZE 1K JA 1/16W
R5206	401 105 0504	MT-GLAZE 1K JA 1/16W
R5207	401 105 0306	MT-GLAZE 10 JA 1/16W
R5211	401 262 8504	MT-GLAZE 62 FA 1/16W
R5212	401 105 0405	MT-GLAZE 100 JA 1/16W
R5213	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5214	401 105 0504	MT-GLAZE 1K JA 1/16W
R5215	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5217	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5218	401 105 2904	MT-GLAZE 22K JA 1/16W
R5221	401 262 8504	MT-GLAZE 62 FA 1/16W
R5222	401 105 0405	MT-GLAZE 100 JA 1/16W
R5223	401 105 0504	MT-GLAZE 1K JA 1/16W
R5224	401 105 5301	MT-GLAZE 4.7K JA 1/16W

Ref. No.	Part No.	Description
R5225	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5231	401 262 8504	MT-GLAZE 62 FA 1/16W
R5232	401 105 0405	MT-GLAZE 100 JA 1/16W
R5233	401 105 0504	MT-GLAZE 1K JA 1/16W
R5234	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5235	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5251	645 033 1725	INDUCTOR,80 OHM
R5252	401 113 4709	MT-GLAZE 130 JA 1/16W
R5253	401 105 0900	MT-GLAZE 120 JA 1/16W
R5255	401 105 0504	MT-GLAZE 1K JA 1/16W
R5256	401 230 2503	MT-GLAZE 1K FA 1/16W
R5257	401 247 0202	MT-GLAZE 3.9K FA 1/16W
R5259	401 105 3901	MT-GLAZE 33 JA 1/16W
R5261	645 033 1725	INDUCTOR,80 OHM
R5262	401 113 4709	MT-GLAZE 130 JA 1/16W
R5263	401 105 0900	MT-GLAZE 120 JA 1/16W
R5265	401 105 0504	MT-GLAZE 1K JA 1/16W
R5266	401 230 2503	MT-GLAZE 1K FA 1/16W
R5267	401 247 0202	MT-GLAZE 3.9K FA 1/16W
R5269	401 105 3901	MT-GLAZE 33 JA 1/16W
R5271	645 033 1725	INDUCTOR,80 OHM
R5272	401 113 4709	MT-GLAZE 130 JA 1/16W
R5273	401 105 0900	MT-GLAZE 120 JA 1/16W
R5275	401 105 0504	MT-GLAZE 1K JA 1/16W
R5276	401 230 2503	MT-GLAZE 1K FA 1/16W
R5277	401 247 0202	MT-GLAZE 3.9K FA 1/16W
R5279	401 105 3901	MT-GLAZE 33 JA 1/16W
R5282	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5283	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5284	401 105 0306	MT-GLAZE 10 JA 1/16W
R5285	401 105 0405	MT-GLAZE 100 JA 1/16W
R5286	401 105 0405	MT-GLAZE 100 JA 1/16W
R5287	401 105 0405	MT-GLAZE 100 JA 1/16W
R5288	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6101	401 105 0504	MT-GLAZE 1K JA 1/16W
R6102	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6103	401 105 0504	MT-GLAZE 1K JA 1/16W
R6104	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R6105	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R6106	401 105 0504	MT-GLAZE 1K JA 1/16W
R6107	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6108	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6109	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6111	401 105 5905	MT-GLAZE 560 JA 1/16W
R6112	401 105 5905	MT-GLAZE 560 JA 1/16W
R6113	401 105 5905	MT-GLAZE 560 JA 1/16W
R6114	401 105 0504	MT-GLAZE 1K JA 1/16W
R6115	401 105 0504	MT-GLAZE 1K JA 1/16W
R6116	401 105 0504	MT-GLAZE 1K JA 1/16W
R6117	401 105 0504	MT-GLAZE 1K JA 1/16W
R6118	401 105 0504	MT-GLAZE 1K JA 1/16W
R6119	401 105 0504	MT-GLAZE 1K JA 1/16W
R6120	401 105 4007	MT-GLAZE 330 JA 1/16W
R6121	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R6122	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R6123	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R6124	401 105 0504	MT-GLAZE 1K JA 1/16W
R6125	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6126	401 105 0504	MT-GLAZE 1K JA 1/16W
R6127	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6128	401 105 0504	MT-GLAZE 1K JA 1/16W
R6129	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6130	401 105 0504	MT-GLAZE 1K JA 1/16W
R6136	401 105 0504	MT-GLAZE 1K JA 1/16W
R6137	401 105 0504	MT-GLAZE 1K JA 1/16W
R6138	401 105 0504	MT-GLAZE 1K JA 1/16W
R6146	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R6148	401 105 0504	MT-GLAZE 1K JA 1/16W
R6149	401 105 0306	MT-GLAZE 10 JA 1/16W
R7001	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7002	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7003	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7004	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7006	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7007	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7008	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7009	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7011	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7012	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7013	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7014	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7016	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7017	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7018	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7019	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7021	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7022	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7023	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7024	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7026	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7027	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7028	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7029	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7031	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7033	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7034	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7035	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7075	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7076	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7081	401 102 7506	MT-GLAZE 22 JA 1W
R7201	401 105 0702	MT-GLAZE 100K JA 1/16W
R7202	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7203	401 105 0603	MT-GLAZE 10K JA 1/16W
R7205	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R7208	401 105 3000	MT-GLAZE 220K JA 1/16W
R7209	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7219	401 105 0405	MT-GLAZE 100 JA 1/16W
R7221	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R836	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R837	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R838	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R839	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R851	401 105 4007	MT-GLAZE 330 JA 1/16W
R852	401 105 4007	MT-GLAZE 330 JA 1/16W
R853	401 105 4007	MT-GLAZE 330 JA 1/16W
R854	401 105 4007	MT-GLAZE 330 JA 1/16W
R855	401 105 4007	MT-GLAZE 330 JA 1/16W
R856	401 105 4007	MT-GLAZE 330 JA 1/16W
R857	401 105 4007	MT-GLAZE 330 JA 1/16W
R859	401 105 4007	MT-GLAZE 330 JA 1/16W
R860	401 105 0405	MT-GLAZE 100 JA 1/16W
R861	401 105 0405	MT-GLAZE 100 JA 1/16W
R862	401 105 0405	MT-GLAZE 100 JA 1/16W
R863	401 105 6506	MT-GLAZE 680 JA 1/16W
R864	401 105 6506	MT-GLAZE 680 JA 1/16W
R865	401 105 6506	MT-GLAZE 680 JA 1/16W
R866	401 105 6506	MT-GLAZE 680 JA 1/16W
R867	401 105 6506	MT-GLAZE 680 JA 1/16W
R868	401 105 6506	MT-GLAZE 680 JA 1/16W
R869	401 105 6506	MT-GLAZE 680 JA 1/16W
R870	401 105 6506	MT-GLAZE 680 JA 1/16W
R871	401 105 4007	MT-GLAZE 330 JA 1/16W
R872	401 105 6506	MT-GLAZE 680 JA 1/16W
R873	401 105 0405	MT-GLAZE 100 JA 1/16W

Ref. No.	Part No.	Description
R874	401 105 0405	MT-GLAZE 100 JA 1/16W
R876	401 105 0603	MT-GLAZE 10K JA 1/16W
R877	401 105 0603	MT-GLAZE 10K JA 1/16W
R878	401 105 0603	MT-GLAZE 10K JA 1/16W
R879	401 105 0603	MT-GLAZE 10K JA 1/16W
R880	401 105 0405	MT-GLAZE 100 JA 1/16W
R882	401 105 0603	MT-GLAZE 10K JA 1/16W
R883	401 105 0603	MT-GLAZE 10K JA 1/16W
R884	401 105 0603	MT-GLAZE 10K JA 1/16W
R886	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R887	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R891	401 105 0405	MT-GLAZE 100 JA 1/16W
R892	401 105 0405	MT-GLAZE 100 JA 1/16W
R893	401 105 0405	MT-GLAZE 100 JA 1/16W
R894	401 105 0405	MT-GLAZE 100 JA 1/16W
R897	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R898	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
COIL		
L1301	645 020 1776	INDUCTOR,3.3U M
L201	645 020 1776	INDUCTOR,3.3U M
L2201	645 020 1776	INDUCTOR,3.3U M
L7001	645 020 1776	INDUCTOR,3.3U M
DIODE		
D101	407 206 6308	ZD UDZS-TE-175.1B
D102	407 149 0807	DIODE 1SS355-TE-17
D1161	407 149 0807	DIODE 1SS355-TE-17
D1168	407 149 0807	DIODE 1SS355-TE-17
D151	407 149 0807	DIODE 1SS355-TE-17
D152	407 149 0807	DIODE 1SS355-TE-17
D153	407 149 0807	DIODE 1SS355-TE-17
D201	407 149 0807	DIODE 1SS355-TE-17
D2201	407 149 0807	DIODE 1SS355-TE-17
D3001	407 149 0807	DIODE 1SS355-TE-17
D5211	407 149 0807	DIODE 1SS355-TE-17
D5221	407 149 0807	DIODE 1SS355-TE-17
D5231	407 149 0807	DIODE 1SS355-TE-17
D6121	407 149 0807	DIODE 1SS355-TE-17
D6122	407 149 0807	DIODE 1SS355-TE-17
D7201	407 149 0807	DIODE 1SS355-TE-17
D7202	407 149 0807	DIODE 1SS355-TE-17
D7203	407 149 0807	DIODE 1SS355-TE-17
D826	407 149 0807	DIODE 1SS355-TE-17
D851	407 149 0807	DIODE 1SS355-TE-17
D852	407 149 0807	DIODE 1SS355-TE-17
D853	407 149 0807	DIODE 1SS355-TE-17
D854	407 149 0807	DIODE 1SS355-TE-17
D855	407 149 0807	DIODE 1SS355-TE-17
D856	407 149 0807	DIODE 1SS355-TE-17
D857	407 149 0807	DIODE 1SS355-TE-17
D858	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
X1111	645 036 0589	OSC,CRYSTAL 4.433619MHZ
X1112	645 036 0596	OSC,CRYSTAL 3.579545MHZ
X1113	645 036 0602	OSC,CRYSTAL 3.575611MHZ
X1114	645 037 5439	OSC,CRYSTAL 3.582056MHZ
X1181	645 024 8535	OSC,CERAMIC 500.0KHZ
X1301	645 036 3788	OSC,CRISTAL,16.000MHZ
X331	645 037 9352	OSC,CRYSTAL 24.000MHZ
X802	645 035 2249	OSC,CRYSTAL 6.7584MHZ

ASSY,PWB,HDTV MB6A

INTEGRATED CIRCUIT		
IC5290	409 429 6806	IC TC74LCX74FT-(EL)
CAPACITOR		
C5290	403 175 4505	ELECT 47U M 6.3V
C5291	403 149 9208	CERAMIC 0.01U Z 50V
RESISTOR		
R5290	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

610 282 0225 ASSY,PWB,MAIN COMP.MB6A_B 1AA0B10C245E0B

TRANSISTOR		
Q1901	405 014 4509	TR 2SC2412K T146 R
Q1941	405 014 4509	TR 2SC2412K T146 R
Q2501	405 002 8304	TR 2SA1203-Y-TE12L
Q2502	405 014 4509	TR 2SC2412K T146 R
Q2503	405 139 7706	TR IMZ1A-T108
Q2504	405 139 7706	TR IMZ1A-T108
Q2533	405 139 7706	TR IMZ1A-T108
Q2534	405 139 7706	TR IMZ1A-T108
Q2553	405 139 7706	TR IMZ1A-T108
Q2554	405 139 7706	TR IMZ1A-T108
Q2595	405 014 4509	TR 2SC2412K T146 R
Q2851	405 014 4509	TR 2SC2412K T146 R
Q2852	405 014 4509	TR 2SC2412K T146 R
Q2853	405 014 4509	TR 2SC2412K T146 R
Q2854	405 134 5905	TR 2SA1037AK-T146-R
Q2856	405 014 4509	TR 2SC2412K T146 R
Q2876	405 014 4509	TR 2SC2412K T146 R
Q2895	405 014 4509	TR 2SC2412K T146 R
Q3551	405 014 4509	TR 2SC2412K T146 R
INTEGRATED CIRCUIT		
IC1901	410 364 2006	IC M30201M4-114FP
IC1902	410 370 7002	IC 24LC02BT/SN-Q0206
IC1903	409 152 5404	IC TC7S08F-TE85L
IC1904	409 404 6302	IC M62320FP
IC1905	409 404 6302	IC M62320FP
IC1906	409 344 1900	IC MN1382-Q-TX
IC2501	409 389 4805	IC LC4105V-TLM
IC2521	409 389 4805	IC LC4105V-TLM
IC2541	409 389 4805	IC LC4105V-TLM
IC2561	409 343 0201	IC LT1206CS8
IC3351	409 419 3709	IC MC10H351ML1
IC3551	409 211 7301	IC MC14053BFL
IC501	409 419 2702	IC CXA2112R
IC531	409 419 2702	IC CXA2112R
IC561	409 419 2702	IC CXA2112R
IC6501	409 419 2702	IC CXA2112R
IC6531	409 419 2702	IC CXA2112R
IC6561	409 419 2702	IC CXA2112R
IC801A	409 461 8400	IC M30201F6FP
CAPACITOR		
C1901	403 155 1609	CERAMIC 33P J 50V
C1902	403 155 1609	CERAMIC 33P J 50V
C1903	403 322 7809	ELECT 220U M 6.3V
C1904	403 164 0204	CERAMIC 0.1U Z 25V
C1906	403 164 0204	CERAMIC 0.1U Z 25V
C1911	403 164 0204	CERAMIC 0.1U Z 25V
C1912	403 322 7809	ELECT 220U M 6.3V
C1921	403 164 0204	CERAMIC 0.1U Z 25V
C1922	403 175 3201	ELECT 33U M 6.3V
C1923	403 215 2201	CERAMIC 0.01U K 50V
C1925	403 164 0204	CERAMIC 0.1U Z 25V
C1926	403 164 0204	CERAMIC 0.1U Z 25V
C1941	403 164 0204	CERAMIC 0.1U Z 25V

Ref. No.	Part No.	Description
C1971	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C1972	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C1973	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C1974	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C1976	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C1977	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C2501	403 280 1604	ELECT 220U M 16V
C2502	403 164 0204	CERAMIC 0.1U Z 25V
C2503	403 322 7809	ELECT 220U M 6.3V
C2504	403 164 0204	CERAMIC 0.1U Z 25V
C2506	403 164 0204	CERAMIC 0.1U Z 25V
C2507	403 341 8801	ELECT 10U M 25V
C2514	403 157 3106	CERAMIC 56P J 50V
C2515	403 157 3106	CERAMIC 56P J 50V
C2516	403 157 3106	CERAMIC 56P J 50V
C2517	403 157 3106	CERAMIC 56P J 50V
C2521	403 280 1604	ELECT 220U M 16V
C2522	403 164 0204	CERAMIC 0.1U Z 25V
C2523	403 322 7809	ELECT 220U M 6.3V
C2524	403 164 0204	CERAMIC 0.1U Z 25V
C2526	403 164 0204	CERAMIC 0.1U Z 25V
C2534	403 157 3106	CERAMIC 56P J 50V
C2535	403 157 3106	CERAMIC 56P J 50V
C2536	403 157 3106	CERAMIC 56P J 50V
C2537	403 157 3106	CERAMIC 56P J 50V
C2541	403 280 1604	ELECT 220U M 16V
C2542	403 164 0204	CERAMIC 0.1U Z 25V
C2543	403 322 7809	ELECT 220U M 6.3V
C2544	403 164 0204	CERAMIC 0.1U Z 25V
C2546	403 164 0204	CERAMIC 0.1U Z 25V
C2554	403 157 3106	CERAMIC 56P J 50V
C2555	403 157 3106	CERAMIC 56P J 50V
C2556	403 157 3106	CERAMIC 56P J 50V
C2557	403 157 3106	CERAMIC 56P J 50V
C2561	403 164 0204	CERAMIC 0.1U Z 25V
C2562	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C2563	403 215 2201	CERAMIC 0.01U K 50V
C2564	403 157 3601	CERAMIC 100P J 50V
C2577	403 164 0204	CERAMIC 0.1U Z 25V
C2579	403 341 8801	ELECT 10U M 25V
C2581	403 164 0204	CERAMIC 0.1U Z 25V
C2582	403 164 0204	CERAMIC 0.1U Z 25V
C2584	403 341 8801	ELECT 10U M 25V
C2585	403 164 0204	CERAMIC 0.1U Z 25V
C2586	403 164 0204	CERAMIC 0.1U Z 25V
C2588	403 341 8801	ELECT 10U M 25V
C2589	403 164 0204	CERAMIC 0.1U Z 25V
C2591	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C2851	403 068 0409	CERAMIC 0.1U Z 25V
C2852	403 068 0409	CERAMIC 0.1U Z 25V
C2881	403 164 0204	CERAMIC 0.1U Z 25V
C2882	403 164 0204	CERAMIC 0.1U Z 25V
C2883	403 164 0204	CERAMIC 0.1U Z 25V
C3351	403 164 0204	CERAMIC 0.1U Z 25V
C3352	403 322 7809	ELECT 220U M 6.3V
C3551	403 164 0204	CERAMIC 0.1U Z 25V
C3552	403 164 0204	CERAMIC 0.1U Z 25V
C3553	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V

Ref. No.	Part No.	Description
C3554	403 164 0204	CERAMIC 0.1U Z 25V
C3556	403 215 1006	CERAMIC 470P J 50V
C501	403 164 0204	CERAMIC 0.1U Z 25V
C502	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C503	403 215 2201	CERAMIC 0.01U K 50V
C504	403 215 2201	CERAMIC 0.01U K 50V
C505	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C506	403 164 0204	CERAMIC 0.1U Z 25V
C507	403 164 0204	CERAMIC 0.1U Z 25V
C509	403 155 1609	CERAMIC 33P J 50V
C531	403 164 0204	CERAMIC 0.1U Z 25V
C532	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C533	403 215 2201	CERAMIC 0.01U K 50V
C534	403 215 2201	CERAMIC 0.01U K 50V
C535	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C536	403 164 0204	CERAMIC 0.1U Z 25V
C537	403 164 0204	CERAMIC 0.1U Z 25V
C539	403 155 1609	CERAMIC 33P J 50V
C561	403 164 0204	CERAMIC 0.1U Z 25V
C563	403 215 2201	CERAMIC 0.01U K 50V
C564	403 215 2201	CERAMIC 0.01U K 50V
C565	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C566	403 164 0204	CERAMIC 0.1U Z 25V
C567	403 164 0204	CERAMIC 0.1U Z 25V
C569	403 155 1609	CERAMIC 33P J 50V
C6502	403 164 0204	CERAMIC 0.1U Z 25V
C6503	403 175 0606	ELECT 100U M 6.3V
C6504	403 164 0204	CERAMIC 0.1U Z 25V
C6507	403 164 0204	CERAMIC 0.1U Z 25V
C6532	403 164 0204	CERAMIC 0.1U Z 25V
C6533	403 175 0606	ELECT 100U M 6.3V
C6534	403 164 0204	CERAMIC 0.1U Z 25V
C6536	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C6537	403 164 0204	CERAMIC 0.1U Z 25V
C6561	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C6562	403 164 0204	CERAMIC 0.1U Z 25V
C6563	403 175 0606	ELECT 100U M 6.3V
C6564	403 164 0204	CERAMIC 0.1U Z 25V
C6566	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C6567	403 164 0204	CERAMIC 0.1U Z 25V
RESISTOR		
RB2501	645 028 5981	R-NETWORK 10X4 1/16W
	645 028 5998	R-NETWORK 10X4 1/16W
RB2502	645 028 5981	R-NETWORK 10X4 1/16W
	645 028 5998	R-NETWORK 10X4 1/16W
RB2521	645 028 5981	R-NETWORK 10X4 1/16W
	645 028 5998	R-NETWORK 10X4 1/16W
RB2522	645 028 5981	R-NETWORK 10X4 1/16W
	645 028 5998	R-NETWORK 10X4 1/16W
RB2541	645 028 5981	R-NETWORK 10X4 1/16W
	645 028 5998	R-NETWORK 10X4 1/16W
RB2542	645 028 5981	R-NETWORK 10X4 1/16W
	645 028 5998	R-NETWORK 10X4 1/16W
RB501	645 024 7477	R-NETWORK 0X4 1/16W
	645 027 1519	R-NETWORK 0X4 1/16W
RB502	645 024 7477	R-NETWORK 0X4 1/16W
	645 027 1519	R-NETWORK 0X4 1/16W
RB503	645 024 7477	R-NETWORK 0X4 1/16W

Ref. No.	Part No.	Description
	645 027 1519	R-NETWORK 0X4 1/16W
RB531	645 024 7477	R-NETWORK 0X4 1/16W
	645 027 1519	R-NETWORK 0X4 1/16W
RB532	645 024 7477	R-NETWORK 0X4 1/16W
	645 027 1519	R-NETWORK 0X4 1/16W
RB533	645 024 7477	R-NETWORK 0X4 1/16W
	645 027 1519	R-NETWORK 0X4 1/16W
RB561	645 024 7477	R-NETWORK 0X4 1/16W
	645 027 1519	R-NETWORK 0X4 1/16W
RB562	645 024 7477	R-NETWORK 0X4 1/16W
	645 027 1519	R-NETWORK 0X4 1/16W
RB563	645 024 7477	R-NETWORK 0X4 1/16W
	645 027 1519	R-NETWORK 0X4 1/16W
R1902	401 105 0405	MT-GLAZE 100 JA 1/16W
R1903	401 105 0405	MT-GLAZE 100 JA 1/16W
R1906	401 105 0405	MT-GLAZE 100 JA 1/16W
R1907	401 105 0603	MT-GLAZE 10K JA 1/16W
R1909	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1913	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1914	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R1916	407 149 0807	DIODE 1SS355-TE-17
R1917	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1924	401 105 0405	MT-GLAZE 100 JA 1/16W
R1926	401 105 0405	MT-GLAZE 100 JA 1/16W
R1927	401 105 0405	MT-GLAZE 100 JA 1/16W
R1928	401 105 0405	MT-GLAZE 100 JA 1/16W
R1930	401 105 0603	MT-GLAZE 10K JA 1/16W
R1932	401 105 0405	MT-GLAZE 100 JA 1/16W
R1933	401 105 0603	MT-GLAZE 10K JA 1/16W
R1936	401 105 0405	MT-GLAZE 100 JA 1/16W
R1937	401 105 0405	MT-GLAZE 100 JA 1/16W
R1938	401 105 0405	MT-GLAZE 100 JA 1/16W
R1939	401 105 0405	MT-GLAZE 100 JA 1/16W
R1941	401 105 0405	MT-GLAZE 100 JA 1/16W
R1942	401 105 0405	MT-GLAZE 100 JA 1/16W
R1943	401 105 0405	MT-GLAZE 100 JA 1/16W
R1944	401 105 0603	MT-GLAZE 10K JA 1/16W
R1945	401 105 0603	MT-GLAZE 10K JA 1/16W
R1946	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1948	401 105 2607	MT-GLAZE 22 JA 1/16W
R1949	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1951	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1952	401 105 0603	MT-GLAZE 10K JA 1/16W
R1953	401 105 0504	MT-GLAZE 1K JA 1/16W
R1954	401 105 0603	MT-GLAZE 10K JA 1/16W
R1955	401 105 0603	MT-GLAZE 10K JA 1/16W
R1956	401 105 0603	MT-GLAZE 10K JA 1/16W
R1957	401 105 0603	MT-GLAZE 10K JA 1/16W
R1961	401 105 0603	MT-GLAZE 10K JA 1/16W
R1964	401 105 0405	MT-GLAZE 100 JA 1/16W
R1966	401 105 0405	MT-GLAZE 100 JA 1/16W
R1967	401 105 5202	MT-GLAZE 470 JA 1/16W
R1969	401 105 0603	MT-GLAZE 10K JA 1/16W
⚠ R1971	402 080 6802	FUSIBLE RES 0.39 JH 1/4W
⚠ R1972	402 080 6802	FUSIBLE RES 0.39 JH 1/4W
⚠ R1973	402 083 2207	FUSIBLE RES 4.7 JH 1/4W
⚠ R1974	402 083 2207	FUSIBLE RES 4.7 JH 1/4W
R1976	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R1978	401 105 0504	MT-GLAZE 1K JA 1/16W
R2501	401 105 4007	MT-GLAZE 330 JA 1/16W
R2502	401 105 4007	MT-GLAZE 330 JA 1/16W
R2503	401 105 0405	MT-GLAZE 100 JA 1/16W
R2504	401 105 0405	MT-GLAZE 100 JA 1/16W
R2505	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2506	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2507	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2508	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2509	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2510	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2516	401 105 0603	MT-GLAZE 10K JA 1/16W
R2517	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2518	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R2519	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2520	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2531	401 105 4007	MT-GLAZE 330 JA 1/16W
R2532	401 105 4007	MT-GLAZE 330 JA 1/16W
R2551	401 105 4007	MT-GLAZE 330 JA 1/16W
R2552	401 105 4007	MT-GLAZE 330 JA 1/16W
R2553	401 105 0405	MT-GLAZE 100 JA 1/16W
R2554	401 105 0405	MT-GLAZE 100 JA 1/16W
R2555	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2556	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2557	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2558	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2559	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2560	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2561	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2562	401 105 0504	MT-GLAZE 1K JA 1/16W
R2566	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2567	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2568	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2570	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2573	401 105 0405	MT-GLAZE 100 JA 1/16W
R2574	401 105 0405	MT-GLAZE 100 JA 1/16W
R2575	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2576	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2577	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2578	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2579	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2580	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2581	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2584	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2585	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2586	401 105 4502	MT-GLAZE 390 JA 1/16W
R2587	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2588	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2589	401 105 4502	MT-GLAZE 390 JA 1/16W
R2590	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2591	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2592	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2593	401 105 4502	MT-GLAZE 390 JA 1/16W
R2594	401 105 4205	MT-GLAZE 33K JA 1/16W
R2595	401 105 0603	MT-GLAZE 10K JA 1/16W
R2596	401 105 5400	MT-GLAZE 47K JA 1/16W
R2597	401 105 5400	MT-GLAZE 47K JA 1/16W
R2598	401 105 5400	MT-GLAZE 47K JA 1/16W
R2851	401 105 4502	MT-GLAZE 390 JA 1/16W
R2852	401 105 4502	MT-GLAZE 390 JA 1/16W
R2853	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2855	401 105 0504	MT-GLAZE 1K JA 1/16W
R2857	401 105 0504	MT-GLAZE 1K JA 1/16W
R2859	401 105 0504	MT-GLAZE 1K JA 1/16W
R2860	401 105 0504	MT-GLAZE 1K JA 1/16W
R2861	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R2862	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2865	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2866	401 105 0603	MT-GLAZE 10K JA 1/16W
R2868	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R2870	401 105 2904	MT-GLAZE 22K JA 1/16W
R2871	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2872	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2873	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2874	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2875	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Ref. No.	Part No.	Description
R2876	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2877	401 105 3406	MT-GLAZE 27K JA 1/16W
R2878	401 105 0504	MT-GLAZE 1K JA 1/16W
R2879	401 105 5202	MT-GLAZE 470 JA 1/16W
R2880	401 105 5202	MT-GLAZE 470 JA 1/16W
R2881	401 105 5202	MT-GLAZE 470 JA 1/16W
R2882	401 105 0603	MT-GLAZE 10K JA 1/16W
R2883	401 105 0603	MT-GLAZE 10K JA 1/16W
R2884	401 105 0603	MT-GLAZE 10K JA 1/16W
R2885	401 105 5202	MT-GLAZE 470 JA 1/16W
R2886	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2887	401 105 5202	MT-GLAZE 470 JA 1/16W
R2891	401 105 5400	MT-GLAZE 47K JA 1/16W
R2892	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2893	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2894	401 105 3406	MT-GLAZE 27K JA 1/16W
R2895	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3346	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3347	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3348	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3349	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3351	401 105 4007	MT-GLAZE 330 JA 1/16W
R3352	401 105 4007	MT-GLAZE 330 JA 1/16W
R3353	401 105 4007	MT-GLAZE 330 JA 1/16W
R3354	401 105 4007	MT-GLAZE 330 JA 1/16W
R3356	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3357	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3358	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3362	401 105 4007	MT-GLAZE 330 JA 1/16W
R3363	401 105 4007	MT-GLAZE 330 JA 1/16W
R3551	401 105 0603	MT-GLAZE 10K JA 1/16W
R3552	401 105 8104	MT-GLAZE 56K JA 1/16W
R3556	401 105 0405	MT-GLAZE 100 JA 1/16W
R3561	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3562	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3563	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3564	401 105 0504	MT-GLAZE 1K JA 1/16W
R3565	401 105 0603	MT-GLAZE 10K JA 1/16W
R3566	401 105 0603	MT-GLAZE 10K JA 1/16W
R3591	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R3595	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R3598TM	403 008 5105	CERAMIC 10P D 50V
R3599	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R501	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R502	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R503	401 105 3406	MT-GLAZE 27K JA 1/16W
R504	401 105 1105	MT-GLAZE 12K JA 1/16W
R505	401 105 0603	MT-GLAZE 10K JA 1/16W
R506	401 105 0603	MT-GLAZE 10K JA 1/16W
R508	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R509	401 105 4007	MT-GLAZE 330 JA 1/16W
R510	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R511	401 105 0603	MT-GLAZE 10K JA 1/16W
R515	401 105 0603	MT-GLAZE 10K JA 1/16W
R531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R532	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R533	401 105 3406	MT-GLAZE 27K JA 1/16W
R534	401 105 1105	MT-GLAZE 12K JA 1/16W
R535	401 105 0603	MT-GLAZE 10K JA 1/16W
R536	401 105 0603	MT-GLAZE 10K JA 1/16W
R538	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R539	401 105 4007	MT-GLAZE 330 JA 1/16W
R540	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R561	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R562	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R563	401 105 3406	MT-GLAZE 27K JA 1/16W
R564	401 105 1105	MT-GLAZE 12K JA 1/16W
R565	401 105 0603	MT-GLAZE 10K JA 1/16W
R566	401 105 0603	MT-GLAZE 10K JA 1/16W
R568	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R569	401 105 4007	MT-GLAZE 330 JA 1/16W
R570	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R575	401 105 0603	MT-GLAZE 10K JA 1/16W
R6501	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6502	401 105 0603	MT-GLAZE 10K JA 1/16W
R6503	401 105 0603	MT-GLAZE 10K JA 1/16W
R6504	401 105 0603	MT-GLAZE 10K JA 1/16W
R6505	401 105 3406	MT-GLAZE 27K JA 1/16W
R6506	401 105 0603	MT-GLAZE 10K JA 1/16W
R6509	401 105 4007	MT-GLAZE 330 JA 1/16W
R6510	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6511	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R6512	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R6531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6532	401 105 0603	MT-GLAZE 10K JA 1/16W
R6533	401 105 0603	MT-GLAZE 10K JA 1/16W
R6534	401 105 0603	MT-GLAZE 10K JA 1/16W
R6535	401 105 3406	MT-GLAZE 27K JA 1/16W
R6536	401 105 0603	MT-GLAZE 10K JA 1/16W
R6539	401 105 4007	MT-GLAZE 330 JA 1/16W
R6540	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6561	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6562	401 105 0603	MT-GLAZE 10K JA 1/16W
R6563	401 105 0603	MT-GLAZE 10K JA 1/16W
R6564	401 105 0603	MT-GLAZE 10K JA 1/16W
R6565	401 105 3406	MT-GLAZE 27K JA 1/16W
R6566	401 105 0603	MT-GLAZE 10K JA 1/16W
R6569	401 105 4007	MT-GLAZE 330 JA 1/16W
R6570	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7561	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R7567	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R9408	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9428	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9448	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
VARIABLE RESISTOR		
VR2502	645 025 7414	VR,SEMI,1K S
VR2503	645 025 7414	VR,SEMI,1K S
VR2504	645 025 7414	VR,SEMI,1K S
VR3551	645 025 7421	VR,SEMI,10K S
VR501	645 025 7421	VR,SEMI,10K S
VR531	645 025 7421	VR,SEMI,10K S
VR561	645 025 7421	VR,SEMI,10K S
COIL		
L2501	645 020 1776	INDUCTOR,3.3U M
L2502	401 035 4306	MT-GLAZE 10 JA 1/8W
L2521	645 020 1776	INDUCTOR,3.3U M
L2541	645 020 1776	INDUCTOR,3.3U M
L2561	645 020 1776	INDUCTOR,3.3U M
L2572	645 020 1776	INDUCTOR,3.3U M
L501	645 020 1776	INDUCTOR,3.3U M
L531	645 020 1776	INDUCTOR,3.3U M
L561	645 020 1776	INDUCTOR,3.3U M
L6531	645 020 1776	INDUCTOR,3.3U M
L6561	645 020 1776	INDUCTOR,3.3U M
DIODE		
D1501	407 149 0807	DIODE 1SS355-TE-17
D1502	407 149 0807	DIODE 1SS355-TE-17
D1503	407 149 0807	DIODE 1SS355-TE-17
D1504	407 149 0807	DIODE 1SS355-TE-17
D1505	407 149 0807	DIODE 1SS355-TE-17
D1507	407 149 0807	DIODE 1SS355-TE-17
D1508	407 149 0807	DIODE 1SS355-TE-17

Ref. No.	Part No.	Description
D1509	407 149 0807	DIODE 1SS355-TE-17
D2501	407 149 0807	DIODE 1SS355-TE-17
D2502	407 149 0807	DIODE 1SS355-TE-17
D2503	407 149 0807	DIODE 1SS355-TE-17
D2504	407 149 0807	DIODE 1SS355-TE-17
D2531	407 149 0807	DIODE 1SS355-TE-17
D2532	407 149 0807	DIODE 1SS355-TE-17
D2533	407 149 0807	DIODE 1SS355-TE-17
D2534	407 149 0807	DIODE 1SS355-TE-17
D2551	407 149 0807	DIODE 1SS355-TE-17
D2552	407 149 0807	DIODE 1SS355-TE-17
D2553	407 149 0807	DIODE 1SS355-TE-17
D2554	407 149 0807	DIODE 1SS355-TE-17
D2851	407 054 4105	ZENER DIODE RD12M-T2BB1
	407 054 4204	ZENER DIODE RD12M-T2BB2
	407 199 6200	ZD 02CZ12X(TE85R)
	407 175 2806	ZD 02CZ12Y(TE85R)
	407 175 2905	ZD 02CZ12Z(TE85R)
D2852	407 054 4105	ZENER DIODE RD12M-T2BB1
	407 054 4204	ZENER DIODE RD12M-T2BB2
	407 199 6200	ZD 02CZ12X(TE85R)
	407 175 2806	ZD 02CZ12Y(TE85R)
	407 175 2905	ZD 02CZ12Z(TE85R)
D2853	407 054 4105	ZENER DIODE RD12M-T2BB1
	407 054 4204	ZENER DIODE RD12M-T2BB2
	407 199 6200	ZD 02CZ12X(TE85R)
	407 175 2806	ZD 02CZ12Y(TE85R)
	407 175 2905	ZD 02CZ12Z(TE85R)
D2854	407 054 4105	ZENER DIODE RD12M-T2BB1
	407 054 4204	ZENER DIODE RD12M-T2BB2
	407 199 6200	ZD 02CZ12X(TE85R)
	407 175 2806	ZD 02CZ12Y(TE85R)
	407 175 2905	ZD 02CZ12Z(TE85R)
D2861	407 203 7704	LED SML-210DT T86 L
D2863	407 203 7803	LED SML-210LT T86 M
D2864	407 203 7902	LED SML-210MT T86 M
D2865	407 203 7803	LED SML-210LT T86 M
D2881	407 175 3803	ZD 02CZ6.2Y(TE85R)
	407 175 3902	ZD 02CZ6.2Z(TE85R)
D2882	407 175 3803	ZD 02CZ6.2Y(TE85R)
	407 175 3902	ZD 02CZ6.2Z(TE85R)
D2883	407 175 3803	ZD 02CZ6.2Y(TE85R)
	407 175 3902	ZD 02CZ6.2Z(TE85R)
D511	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
X1901	645 029 5966	OSC,CRYSTAL 8.000MHZ

610 282 0232 ASSY,PWB,MAIN COMP.MB6A_C 1AA0B10C2450C

TRANSISTOR

Q451	405 014 4509	TR 2SC2412K T146 R

INTEGRATED CIRCUIT

IC2601	409 416 6406	IC BA033FP-E2
IC2611	409 416 6406	IC BA033FP-E2
IC2612	409 461 7700	IC PQ2TZ15
IC2631	409 416 6406	IC BA033FP-E2
IC2641	409 124 5708	IC L78M09T-TR
IC2642	409 241 9405	IC L88MS05T-TL
IC3301	409 440 2900	IC LC24106A-PC7
IC3302	410 325 4704	IC HD74LVC244AT
IC3303	409 416 6406	IC BA033FP-E2
IC3321	410 311 5708	IC MC74HCT244ADT
	410 315 5506	IC HD74HCT244TV
	410 356 7507	IC SN74HCT244PWR
IC3331	410 315 5308	IC MC74ACT244DT
	410 331 2008	IC HD74ACT244TELL
	410 358 7406	IC SN74ACT244PWR
IC3341	410 311 5708	IC MC74HCT244ADT
	410 315 5506	IC HD74HCT244TV
	410 356 7507	IC SN74HCT244PWR
IC3371	410 315 5308	IC MC74ACT244DT
	410 331 2008	IC HD74ACT244TELL
	410 358 7406	IC SN74ACT244PWR
IC3381	409 422 5400	IC MC74AC04DT
	409 423 7205	IC TC74AC04FT
	410 357 4208	IC SN74LV04APWR
IC3391	410 351 5805	IC EPM7032AELC44-10
IC401	409 419 2603	IC CXA2111R
IC431	409 326 3007	IC M62358FP
IC451	409 241 9405	IC L88MS05T-TL
IC471	409 460 8302	IC CXD3503R
IC472	409 241 9405	IC L88MS05T-TL

CAPACITOR

C2601	403 164 0204	CERAMIC	0.1U Z 25V
C2602	403 280 0508	ELECT	470U M 4V
C2603	403 164 0204	CERAMIC	0.1U Z 25V
C2611	403 164 0204	CERAMIC	0.1U Z 25V
C2612	403 164 0204	CERAMIC	0.1U Z 25V
C2613	403 164 0204	CERAMIC	0.1U Z 25V
C2614	403 280 0508	ELECT	470U M 4V
C2615	403 164 0204	CERAMIC	0.1U Z 25V
C2616	403 280 0508	ELECT	470U M 4V
C2631	403 164 0204	CERAMIC	0.1U Z 25V
C2632	403 280 0508	ELECT	470U M 4V
C2633	403 164 0204	CERAMIC	0.1U Z 25V
C2641	403 164 0204	CERAMIC	0.1U Z 25V
C2642	403 280 1604	ELECT	220U M 16V
C2643	403 164 0204	CERAMIC	0.1U Z 25V
C2646	403 322 7809	ELECT	220U M 6.3V
C2647	403 283 6309	CERAMIC	1U Z 10V
	403 336 5600	CERAMIC	1U Z 10V
C2648	403 322 7809	ELECT	220U M 6.3V
C2649	403 164 0204	CERAMIC	0.1U Z 25V
C2801	403 283 6309	CERAMIC	1U Z 10V
	403 336 5600	CERAMIC	1U Z 10V
C2802	403 157 2901	CERAMIC	47P J 50V
C3301	403 322 7809	ELECT	220U M 6.3V
C3302	403 164 0204	CERAMIC	0.1U Z 25V
C3303	403 164 0204	CERAMIC	0.1U Z 25V
C3304	403 164 0204	CERAMIC	0.1U Z 25V
C3305	403 164 0204	CERAMIC	0.1U Z 25V
C3306	403 164 0204	CERAMIC	0.1U Z 25V
C3307	403 322 7809	ELECT	220U M 6.3V
C3308	403 322 7809	ELECT	220U M 6.3V
C3309	403 164 0204	CERAMIC	0.1U Z 25V
C3321	403 164 0204	CERAMIC	0.1U Z 25V
C3331	403 164 0204	CERAMIC	0.1U Z 25V
C3341	403 164 0204	CERAMIC	0.1U Z 25V
C3371	403 164 0204	CERAMIC	0.1U Z 25V
C3381	403 164 0204	CERAMIC	0.1U Z 25V
C3391	403 322 7809	ELECT	220U M 6.3V
C3392	403 164 0204	CERAMIC	0.1U Z 25V
C3393	403 164 0204	CERAMIC	0.1U Z 25V
C3394	403 164 0204	CERAMIC	0.1U Z 25V
C3396	403 164 0204	CERAMIC	0.1U Z 25V
C3397	403 164 0204	CERAMIC	0.1U Z 25V
C401	403 164 0204	CERAMIC	0.1U Z 25V
C402	403 149 9208	CERAMIC	0.01U Z 50V
C403	403 149 9208	CERAMIC	0.01U Z 50V

Ref. No.	Part No.	Description
C404	403 149 9208	CERAMIC 0.01U Z 50V
C405	403 322 7809	ELECT 220U M 6.3V
C406	403 164 0204	CERAMIC 0.1U Z 25V
C407	403 322 7809	ELECT 220U M 6.3V
C408	403 164 0204	CERAMIC 0.1U Z 25V
C409	403 164 0204	CERAMIC 0.1U Z 25V
C411	403 149 9208	CERAMIC 0.01U Z 50V
C412	403 149 9208	CERAMIC 0.01U Z 50V
C413	403 149 9208	CERAMIC 0.01U Z 50V
C414	403 149 9208	CERAMIC 0.01U Z 50V
C415	403 149 9208	CERAMIC 0.01U Z 50V
C416	403 149 9208	CERAMIC 0.01U Z 50V
C431	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C432	403 149 9208	CERAMIC 0.01U Z 50V
C433	403 164 0204	CERAMIC 0.1U Z 25V
C434	403 322 7809	ELECT 220U M 6.3V
C435	403 298 9609	CERAMIC 0.1U K 16V
	403 325 3303	CERAMIC 0.1U K 16V
C436	403 298 9609	CERAMIC 0.1U K 16V
	403 325 3303	CERAMIC 0.1U K 16V
C437	403 298 9609	CERAMIC 0.1U K 16V
	403 325 3303	CERAMIC 0.1U K 16V
C451	403 322 7809	ELECT 220U M 6.3V
C452	403 322 7809	ELECT 220U M 6.3V
C453	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C454	403 164 0204	CERAMIC 0.1U Z 25V
C470	403 322 7809	ELECT 220U M 6.3V
C472	403 164 0204	CERAMIC 0.1U Z 25V
C473	403 162 4709	ELECT 10U M 16V
C474	403 164 0204	CERAMIC 0.1U Z 25V
C475	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C476	403 113 3805	CERAMIC 1000P K 50V
C477	403 215 0900	CERAMIC 390P J 50V
C478	403 113 3805	CERAMIC 1000P K 50V
C479	403 215 0900	CERAMIC 390P J 50V
C480	403 341 3905	POS-SOLID 100U M 6.3V
C481	403 113 3805	CERAMIC 1000P K 50V
C482	403 215 0900	CERAMIC 390P J 50V
C483	403 164 0204	CERAMIC 0.1U Z 25V
C484	403 164 0204	CERAMIC 0.1U Z 25V
RESISTOR		
R2601	401 102 7506	MT-GLAZE 22 JA 1W
R2602	401 198 7909	MT-GLAZE 47 JA 1W
R2611	401 105 0405	MT-GLAZE 100 JA 1/16W
R2612	401 102 7506	MT-GLAZE 22 JA 1W
R2614	401 102 7506	MT-GLAZE 22 JA 1W
R2632	401 198 7909	MT-GLAZE 47 JA 1W
R2642	401 102 7506	MT-GLAZE 22 JA 1W
R2643	401 198 7909	MT-GLAZE 47 JA 1W
R2644	401 162 6501	MT-GLAZE 82 JA 1W
R2645	401 162 6501	MT-GLAZE 82 JA 1W
R2646	401 162 6501	MT-GLAZE 82 JA 1W
R2648	401 102 7506	MT-GLAZE 22 JA 1W
R2649	401 162 6501	MT-GLAZE 82 JA 1W
R2801	401 105 4007	MT-GLAZE 330 JA 1/16W
R2802	401 105 0405	MT-GLAZE 100 JA 1/16W
R3301	401 105 4007	MT-GLAZE 330 JA 1/16W
R3302	401 105 4007	MT-GLAZE 330 JA 1/16W
R3303	401 105 4007	MT-GLAZE 330 JA 1/16W
R3304	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3305	401 105 0405	MT-GLAZE 100 JA 1/16W
R3306	401 105 0405	MT-GLAZE 100 JA 1/16W
R3307	401 105 0405	MT-GLAZE 100 JA 1/16W

Ref. No.	Part No.	Description
R3308	401 105 0405	MT-GLAZE 100 JA 1/16W
R3309	401 105 0405	MT-GLAZE 100 JA 1/16W
R3310	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3311	401 105 0405	MT-GLAZE 100 JA 1/16W
R3313	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3314	401 105 0405	MT-GLAZE 100 JA 1/16W
R3315	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3316	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3317	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3318	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3319	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3320	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3321	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3322	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3323	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3324	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3325	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3326	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3327	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3328	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3329	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3330	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3331	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3333	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3335	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R3336	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R3339	401 105 2706	MT-GLAZE 220 JA 1/16W
R3371	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3372	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3381	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3382	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3383	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3385	401 105 6506	MT-GLAZE 680 JA 1/16W
R3386	401 105 6506	MT-GLAZE 680 JA 1/16W
R3387	401 105 6506	MT-GLAZE 680 JA 1/16W
R3391	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3393	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3394	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3395	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3396	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3397	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3398	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3399	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R401	401 105 0603	MT-GLAZE 10K JA 1/16W
R402	401 105 0603	MT-GLAZE 10K JA 1/16W
R403	401 217 3202	MT-GLAZE 51K FA 1/16W
R404	401 212 1708	MT-GLAZE 24K FA 1/16W
R405	401 105 0504	MT-GLAZE 1K JA 1/16W
R406	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R407	401 105 0504	MT-GLAZE 1K JA 1/16W
R409	401 105 0702	MT-GLAZE 100K JA 1/16W
R411	401 105 4700	MT-GLAZE 39K JA 1/16W
R412	401 105 8104	MT-GLAZE 56K JA 1/16W
R419	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R421	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R422	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R430	401 105 0405	MT-GLAZE 100 JA 1/16W
R431	401 105 0405	MT-GLAZE 100 JA 1/16W
R432	401 105 0405	MT-GLAZE 100 JA 1/16W
R433	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R434	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R435	401 105 8203	MT-GLAZE 68K JA 1/16W
R436	401 105 8203	MT-GLAZE 68K JA 1/16W
R437	401 105 8203	MT-GLAZE 68K JA 1/16W
R438	401 105 0603	MT-GLAZE 10K JA 1/16W
R439	401 105 0603	MT-GLAZE 10K JA 1/16W
R441	401 105 0603	MT-GLAZE 10K JA 1/16W

Ref. No.	Part No.	Description
R442	401 105 3406	MT-GLAZE 27K JA 1/16W
R443	401 105 3406	MT-GLAZE 27K JA 1/16W
R444	401 105 3406	MT-GLAZE 27K JA 1/16W
R445	401 105 1105	MT-GLAZE 12K JA 1/16W
R446	401 105 1105	MT-GLAZE 12K JA 1/16W
R447	401 105 1105	MT-GLAZE 12K JA 1/16W
R448	401 105 0405	MT-GLAZE 100 JA 1/16W
R449	401 105 0405	MT-GLAZE 100 JA 1/16W
R451	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R452	401 105 0603	MT-GLAZE 10K JA 1/16W
R453	401 105 0603	MT-GLAZE 10K JA 1/16W
R454	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R470	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R471	401 105 0504	MT-GLAZE 1K JA 1/16W
R473	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R474	401 105 0603	MT-GLAZE 10K JA 1/16W
R476	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R477	401 105 4502	MT-GLAZE 390 JA 1/16W
R478	401 105 0504	MT-GLAZE 1K JA 1/16W
R479	401 105 0504	MT-GLAZE 1K JA 1/16W
R481	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R482	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R483	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R484	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R486	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R491	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R492	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R493	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R494	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
COIL		
L431	645 026 1008	INDUCTOR,3.3U M
L471	401 036 9904	MT-GLAZE 560 JA 1/8W
L472	401 035 4603	MT-GLAZE 100 JA 1/8W
L473	401 036 9904	MT-GLAZE 560 JA 1/8W
L474	401 035 4603	MT-GLAZE 100 JA 1/8W
L476	401 036 9904	MT-GLAZE 560 JA 1/8W
L477	401 035 4603	MT-GLAZE 100 JA 1/8W
DIODE		
D2801	407 175 3803	ZD 02CZ6.2Y(TE85R)
	407 175 3902	ZD 02CZ6.2Z(TE85R)
D2802	407 175 3803	ZD 02CZ6.2Y(TE85R)
	407 175 3902	ZD 02CZ6.2Z(TE85R)
D3301	407 149 0807	DIODE 1SS355-TE-17
D3302	407 149 0807	DIODE 1SS355-TE-17
D3303	407 149 0807	DIODE 1SS355-TE-17
D3304	407 149 0807	DIODE 1SS355-TE-17
D3305	407 149 0807	DIODE 1SS355-TE-17
D3306	407 149 0807	DIODE 1SS355-TE-17
D3307	407 149 0807	DIODE 1SS355-TE-17
D3308	407 149 0807	DIODE 1SS355-TE-17
D3309	407 149 0807	DIODE 1SS355-TE-17
D3311	407 149 0807	DIODE 1SS355-TE-17

610 282 0249 ASSY,PWB,MAIN COMP.MB6A_D 1AA0B10C2450D

Ref. No.	Part No.	Description
TRANSISTOR		
Q191	405 014 4509	TR 2SC2412K T146 R
Q2121	405 014 4509	TR 2SC2412K T146 R
Q2122	405 014 4509	TR 2SC2412K T146 R
Q2123	405 134 5905	TR 2SA1037AK-T146-R
Q2124	405 014 4509	TR 2SC2412K T146 R
Q2161	405 014 4509	TR 2SC2412K T146 R
Q2171	405 134 5905	TR 2SA1037AK-T146-R
Q6141	405 014 4509	TR 2SC2412K T146 R
Q6171	405 134 5905	TR 2SA1037AK-T146-R
Q6176	405 014 4509	TR 2SC2412K T146 R
Q6181	405 014 4509	TR 2SC2412K T146 R
Q6186	405 134 5905	TR 2SA1037AK-T146-R
Q6196	405 014 4509	TR 2SC2412K T146 R
INTEGRATED CIRCUIT		
IC1151	409 158 5804	IC TC74HC123AF-TP1
IC191	409 083 8000	IC LA6082M-TP-T1
IC2101	409 418 9504	IC TC9090AF
IC2202	409 350 3400	IC LT1253CS8
IC6131	409 441 8406	IC LA7217M-T-TRM
IC6151	409 211 7301	IC MC14053BFL
	409 051 2900	IC TC4053BF-TP1
CAPACITOR		
C1151	403 164 0204	CERAMIC 0.1U Z 25V
C1152	403 215 1006	CERAMIC 470P J 50V
C1156	403 155 2200	CERAMIC 3300P K 50V
C191	403 162 4709	ELECT 10U M 16V
C192	403 149 9208	CERAMIC 0.01U Z 50V
C193	403 164 0204	CERAMIC 0.1U Z 25V
C195	403 164 0204	CERAMIC 0.1U Z 25V
C196	403 175 4505	ELECT 47U M 6.3V
C2101	403 175 4505	ELECT 47U M 6.3V
C2102	403 164 0204	CERAMIC 0.1U Z 25V
C2103	403 175 4505	ELECT 47U M 6.3V
C2104	403 164 0204	CERAMIC 0.1U Z 25V
C2106	403 175 4505	ELECT 47U M 6.3V
C2107	403 164 0204	CERAMIC 0.1U Z 25V
C2108	403 175 4505	ELECT 47U M 6.3V
C2109	403 164 0204	CERAMIC 0.1U Z 25V
C2111	403 164 0204	CERAMIC 0.1U Z 25V
C2112	403 157 3809	CERAMIC 120P J 50V
C2123	403 215 2201	CERAMIC 0.01U K 50V
C2124	403 215 2201	CERAMIC 0.01U K 50V
C2131	403 157 3106	CERAMIC 56P J 50V
C2132	403 155 1609	CERAMIC 33P J 50V
C2133	403 164 0204	CERAMIC 0.1U Z 25V
C2141	403 215 2201	CERAMIC 0.01U K 50V
C2142	403 215 2201	CERAMIC 0.01U K 50V
C2143	403 215 2201	CERAMIC 0.01U K 50V
C2144	403 215 2201	CERAMIC 0.01U K 50V
C2146	403 215 2201	CERAMIC 0.01U K 50V
C2147	403 155 1500	CERAMIC 180P J 50V
C2148	403 215 2201	CERAMIC 0.01U K 50V
C2149	403 175 4505	ELECT 47U M 6.3V
C2151	403 175 4109	ELECT 22U M 16V
C2152	403 164 0204	CERAMIC 0.1U Z 25V
C2166	403 162 4709	ELECT 10U M 16V
C2176	403 162 4709	ELECT 10U M 16V
C2181	403 145 9905	CERAMIC 22P J 50V
C6130TM	403 232 9702	ELECT 220U M 6.3V
C6132	403 164 0204	CERAMIC 0.1U Z 25V
C6133	403 237 8700	CERAMIC 0.056U Z 50V
C6134	403 224 6603	CERAMIC 0.022U Z 50V
C6137	403 162 6208	ELECT 1U M 50V
C6138	403 157 6909	CERAMIC 820P K 50V
C6139	403 215 2201	CERAMIC 0.01U K 50V
C6151	403 164 0204	CERAMIC 0.1U Z 25V
C6154	403 164 0204	CERAMIC 0.1U Z 25V
C6196	403 164 0204	CERAMIC 0.1U Z 25V
RESISTOR		
R1151	401 212 0008	MT-GLAZE 15K FA 1/16W
R1152	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Ref. No.	Part No.	Description
R1153	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1156	401 105 8104	MT-GLAZE 56K JA 1/16W
R187	401 105 0504	MT-GLAZE 1K JA 1/16W
R188	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R189	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R191	401 105 0702	MT-GLAZE 100K JA 1/16W
R193	401 105 0603	MT-GLAZE 10K JA 1/16W
R194	401 105 0603	MT-GLAZE 10K JA 1/16W
R195	401 113 6901	MT-GLAZE 13K JA 1/16W
R196	401 105 5400	MT-GLAZE 47K JA 1/16W
R198	401 105 0702	MT-GLAZE 100K JA 1/16W
R199	401 105 4700	MT-GLAZE 39K JA 1/16W
R2111	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2112	401 105 0603	MT-GLAZE 10K JA 1/16W
R2116	401 105 1402	MT-GLAZE 150 JA 1/16W
R2117	401 105 1402	MT-GLAZE 150 JA 1/16W
R2121	401 105 0405	MT-GLAZE 100 JA 1/16W
R2122	401 105 0504	MT-GLAZE 1K JA 1/16W
R2123	401 105 0504	MT-GLAZE 1K JA 1/16W
R2124	401 105 0504	MT-GLAZE 1K JA 1/16W
R2126	401 105 1105	MT-GLAZE 12K JA 1/16W
R2127	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R2128	401 105 0504	MT-GLAZE 1K JA 1/16W
R2129	401 105 0504	MT-GLAZE 1K JA 1/16W
R2131	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2133	401 105 0504	MT-GLAZE 1K JA 1/16W
R2134	401 105 0504	MT-GLAZE 1K JA 1/16W
R2141	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R2142	401 105 1105	MT-GLAZE 12K JA 1/16W
R2143	401 105 7305	MT-GLAZE 820 JA 1/16W
R2144	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2146	401 105 0603	MT-GLAZE 10K JA 1/16W
R2147	401 105 0603	MT-GLAZE 10K JA 1/16W
R2161	401 105 0405	MT-GLAZE 100 JA 1/16W
R2162	401 105 0504	MT-GLAZE 1K JA 1/16W
R2163	401 230 2503	MT-GLAZE 1K FA 1/16W
R2164	401 218 4406	MT-GLAZE 1.2K FA 1/16W
R2166	401 219 1602	MT-GLAZE 100K FA 1/16W
R2167	401 212 0008	MT-GLAZE 15K FA 1/16W
R2168	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2171	401 105 0405	MT-GLAZE 100 JA 1/16W
R2172	401 105 0504	MT-GLAZE 1K JA 1/16W
R2173	401 230 2503	MT-GLAZE 1K FA 1/16W
R2174	401 230 2503	MT-GLAZE 1K FA 1/16W
R2176	401 219 1602	MT-GLAZE 100K FA 1/16W
R2177	401 235 7008	MT-GLAZE 39K FA 1/16W
R2178	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2181	401 218 4505	MT-GLAZE 2.2K FA 1/16W
R2182	401 105 0405	MT-GLAZE 100 JA 1/16W
R2183	401 230 2503	MT-GLAZE 1K FA 1/16W
R2186	401 218 4505	MT-GLAZE 2.2K FA 1/16W
R2187	401 234 8600	MT-GLAZE 8.2K FA 1/16W
R2260	401 276 4301	MT-GLAZE 4.7 JA 1/3W
R6131	401 105 3109	MT-GLAZE 27 JA 1/16W
R6132	401 105 1709	MT-GLAZE 150K JA 1/16W
R6133	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R6134	401 105 5905	MT-GLAZE 560 JA 1/16W
R6141	401 105 0504	MT-GLAZE 1K JA 1/16W
R6142	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R6143	401 105 0504	MT-GLAZE 1K JA 1/16W
R6151	401 105 0603	MT-GLAZE 10K JA 1/16W
R6153	401 105 0603	MT-GLAZE 10K JA 1/16W
R6154	401 105 0603	MT-GLAZE 10K JA 1/16W
R6155	401 105 0603	MT-GLAZE 10K JA 1/16W
R6161	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6163	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6171	401 105 0504	MT-GLAZE 1K JA 1/16W
R6172	401 105 0405	MT-GLAZE 100 JA 1/16W
R6176	401 105 0504	MT-GLAZE 1K JA 1/16W
R6181	401 105 0405	MT-GLAZE 100 JA 1/16W
R6182	401 105 0504	MT-GLAZE 1K JA 1/16W
R6186	401 105 0405	MT-GLAZE 100 JA 1/16W
R6187	401 105 0504	MT-GLAZE 1K JA 1/16W
R6198	401 105 0702	MT-GLAZE 100K JA 1/16W
COIL		
L2101	645 020 1776	INDUCTOR,3.3U M
L2102	645 020 1776	INDUCTOR,3.3U M
L2103	645 020 1776	INDUCTOR,3.3U M
L2104	645 020 1776	INDUCTOR,3.3U M
L2121	645 004 2409	INDUCTOR,33U J
L2122	645 004 2430	INDUCTOR,56U J
L2161	645 025 6066	FILTER,LP 7MHZ
L2171	645 025 6066	FILTER,LP 7MHZ
DIODE		
D1151	407 149 0807	DIODE 1SS355-TE-17
D1152	407 149 0807	DIODE 1SS355-TE-17
D191	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
X6131	645 035 8838	OSC,CERAMIC 500.0KHZ

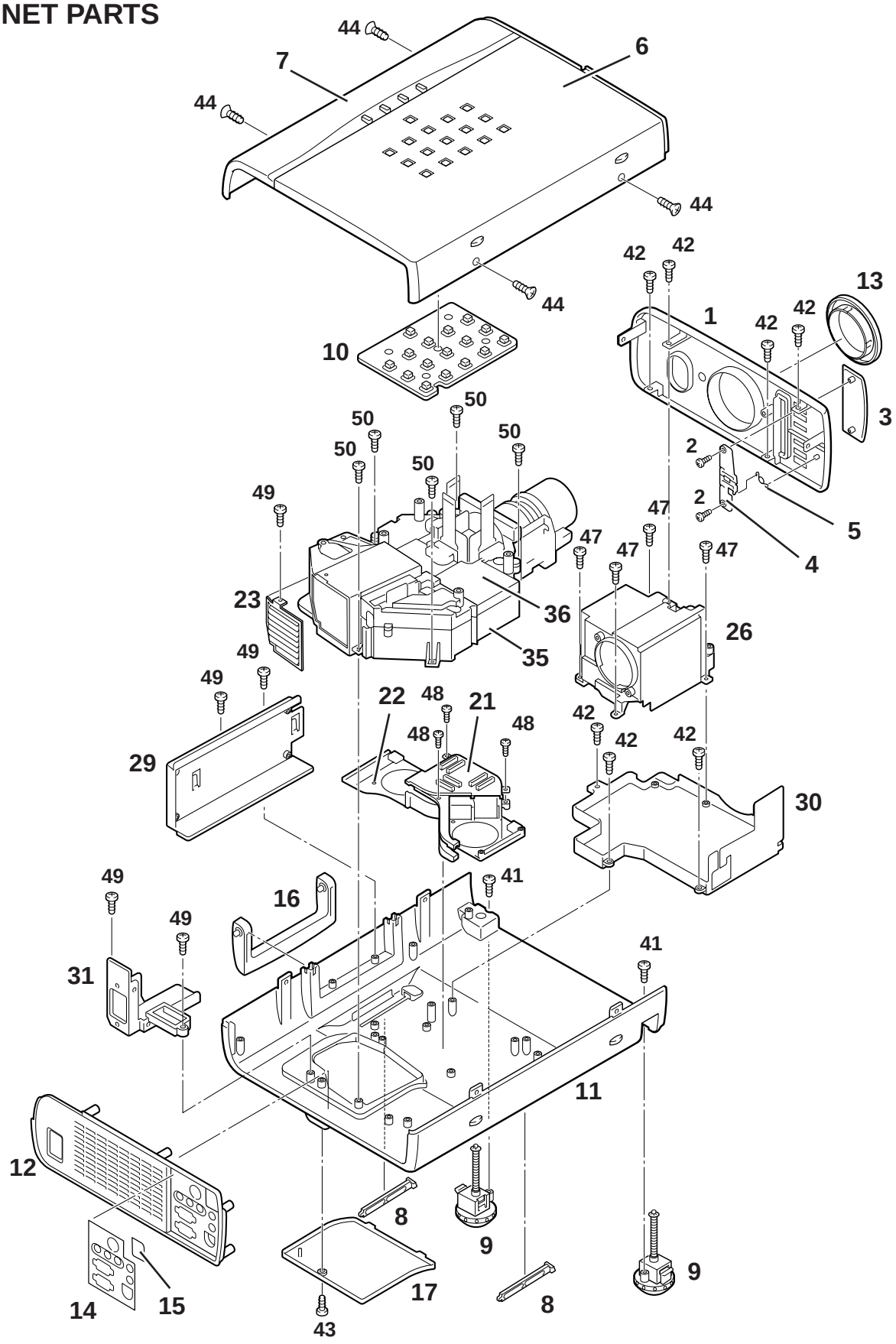
ACCESSORIES

	645 039 2788	ASSY,REMOCON CXGD
	610 283 3867	RC-BATTERY LID-CXFJ
	610 284 2746	OWNER'S MANUAL FOR MCI-MA
	645 037 0366	DISC,CD-ROM
	645 037 7761	CARD,ADAPTOR
	645 037 7792	CARD,SMARTMEDIA
	610 283 0828	COVER,DUST-MA6A
	645 030 6624	CABLE,INTERFACE VGA
	645 039 7202	CABLE,MOUSE PS/2
AC CORD		
⚠	645 011 6131	CORD,POWER-3.0MK (For Model PLC-XU22E, EU)
⚠	645 011 6148	CORD,POWER-3.0MK (For Model PLC-XU22B, UK)
OWNER'S MANUAL		
	610 282 8658	OWNER'S MANUAL-PB6G
	610 282 8665	OWNER'S MANUAL PB6G-D
	610 282 8672	OWNER'S MANUAL PB6G-F
	610 282 8689	OWNER'S MANUAL PB6G-I
	610 282 8696	OWNER'S MANUAL PB6G-E (For Model PLC-XU22E, EU)
	610 282 8719	OWNER'S MANUAL-PB6J (For Model PLC-XU22B, UK)

■ Mechanical Parts List

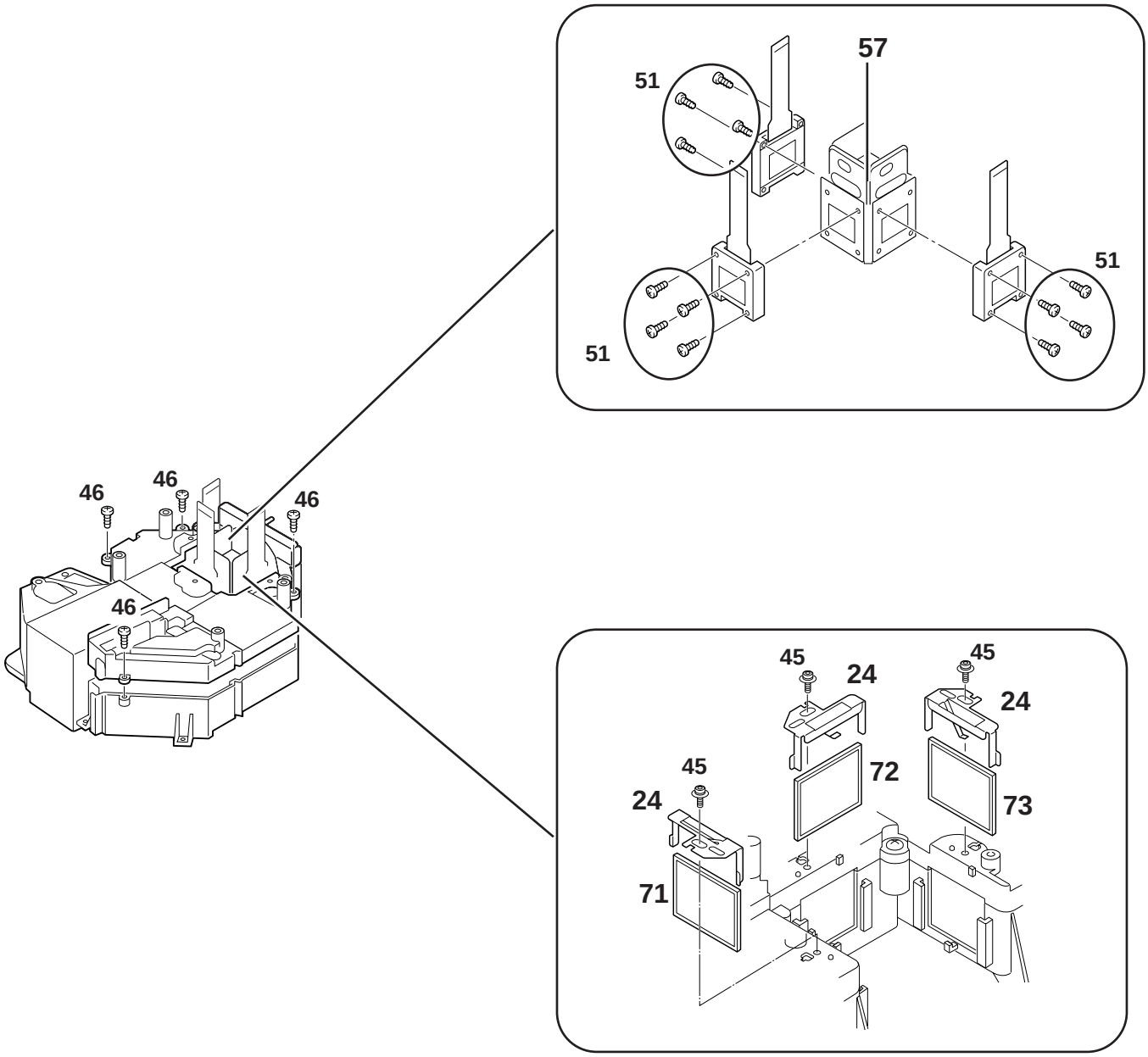
Note: Parts order must contain Service Ref. No., Part No., and Descriptions.

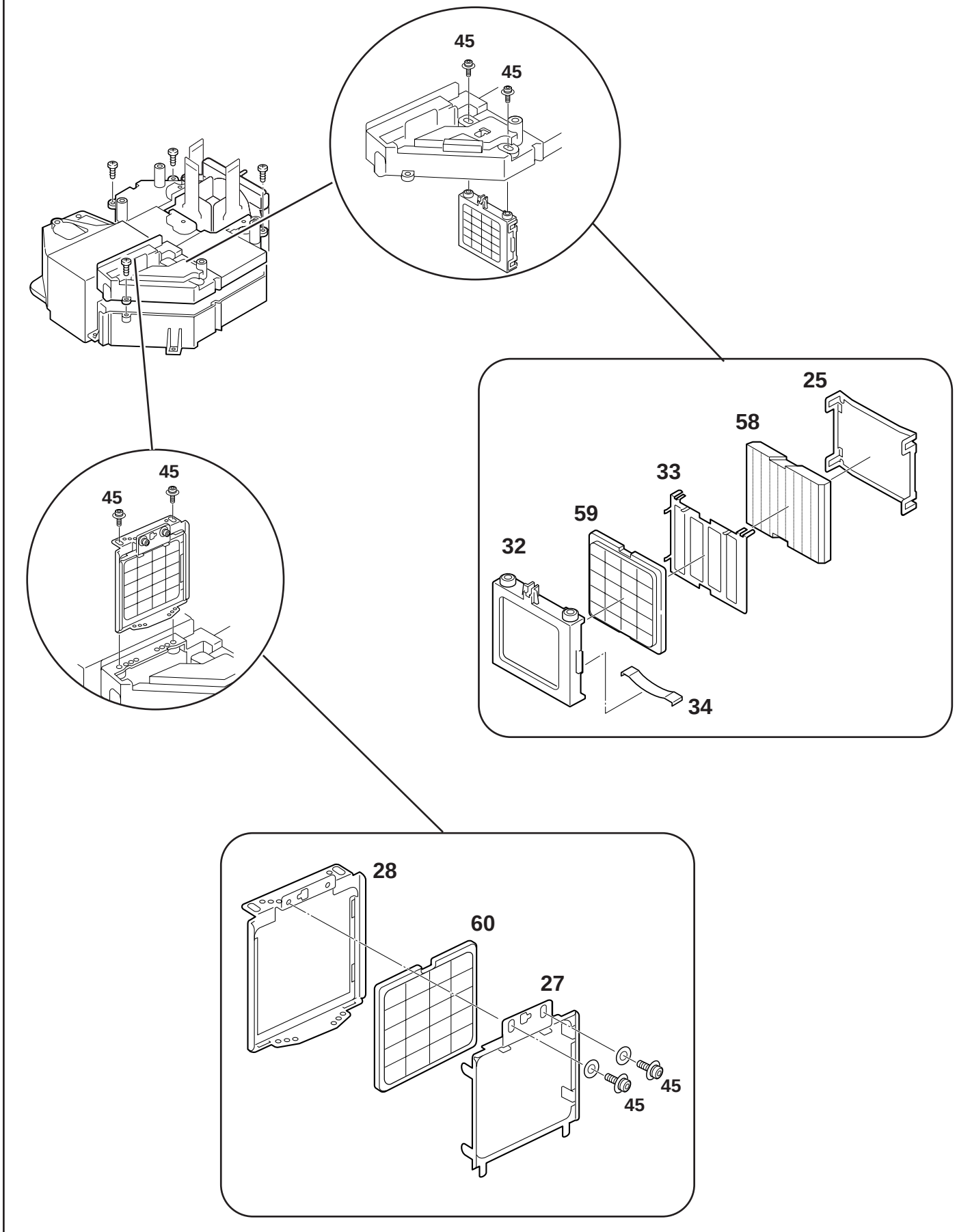
● CABINET PARTS



Key No.	Part No.	Description
CABINET PARTS		
1	610 282 5916	ASSY,CABINET FR-MA6G (Including Key No. 2, 3, 4 and 5)
2	411 179 1901	SCR S-TPG PAN PCS 1.7X4
3	610 280 4331	DOOR PC-MA6A
4	610 280 4348	DOOR PC SLIDE-MA6A
5	610 280 4584	SPRING DOOR-MA6A
6	610 285 1779	COMPL,CABINET TOP-MB6G (Including Key No. 7)
7	610 285 5708	COMPL,COVER C-TOP-MA6A
8	610 281 0028	ASSY,PANEL NET-MA6A
9	610 280 4218	ASSY,STAND LEG-MA6A
10	610 283 0965	BUTTON-MA6G
11	610 285 3377	COMPL,CABINET BOTTOM-MA6A
12	610 280 2603	CABINET BACK-MA6A
13	610 280 4287	CAP LENS-MA6A
14	610 280 4362	DEC AV SHEET-MA6A
15	610 280 4386	DEC RC SHEET R-MA6A
16	610 280 2641	HANDLE-MA6A
17	610 280 2689	PANEL LAMP-MA6A
CHASSIS PARTS		
21	610 280 2610	COVER DUCT TOP-MA6A
22	610 280 2627	COVER DUCT BTM-MA6A
23	610 280 4324	COVER LAMP OUT-MA6A
24	610 274 4231	HOLDER POLA-M6RA
25	610 280 4416	HOLDER INT OUT-MA6A
26	610 280 4423	HOLDER POW PWB-MA6A
27	610 280 4461	MOUNTING INT IN A-MA6A
28	610 280 4478	MOUNTING INT IN B-MA6A
29	610 280 4485	MOUNTING LAMP PWB-MA6A
30	610 280 4492	MOUNTING SET POW-MA6A
31	610 280 4508	MOUNTING SW-MA6A
32	610 280 4515	MOUNTING INT OUT-MA6A
33	610 280 4539	SPACER SLIT INT OUT MA6A
34	610 280 4577	SPRING INT OUT-MA6A
35	610 280 2696	OPTICAL BASE BTM-MA6A
36	610 280 2702	OPTICAL BASE TOP-MA6A
SCREWS-CABINET-		
41	411 025 6500	SCR S-TPG BIN 3X8
42	411 001 8702	SCR BIN 3X6
43	411 001 8801	SCR BIN 3X6
44	411 052 9109	SCR OVL 3X6
SCREWS-CHASSIS-		
45	411 174 9308	BOLT HEX-SCT+SW+W 2.5X6
46	411 025 5206	SCR S-TPG BIN 3X10
47	411 025 6500	SCR S-TPG BIN 3X8
48	411 026 7704	SCR S-TPG PAN 3X6
49	411 001 8702	SCR BIN 3X6
50	411 001 8900	SCR BIN 3X8
51	411 052 1806	SCR OVL 2X8

● CHASSIS PARTS

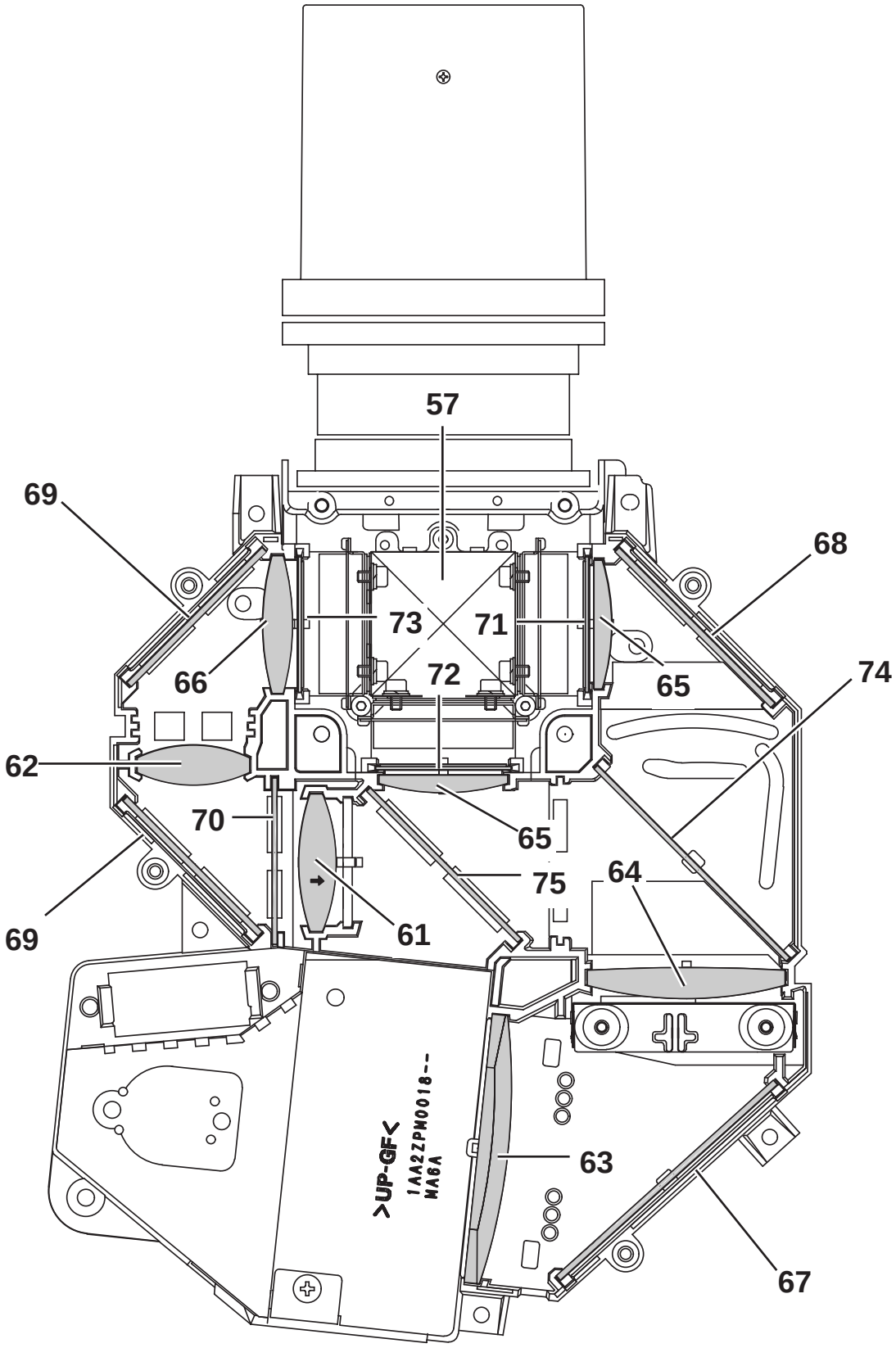


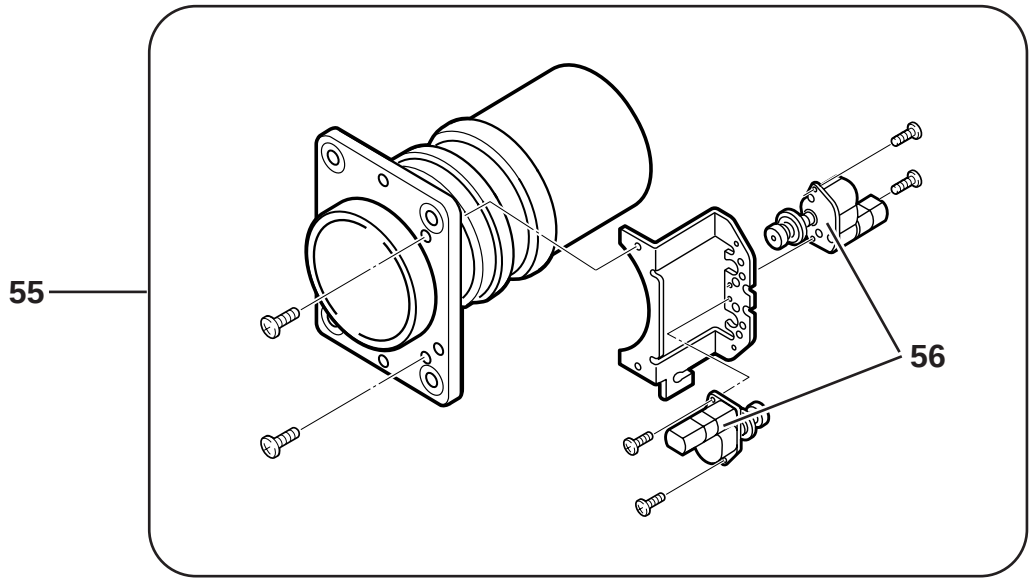

45
45
25
58
33
59
32
34
45
45
28
60
27
45
45

■ Optical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

● OPTICAL PARTS





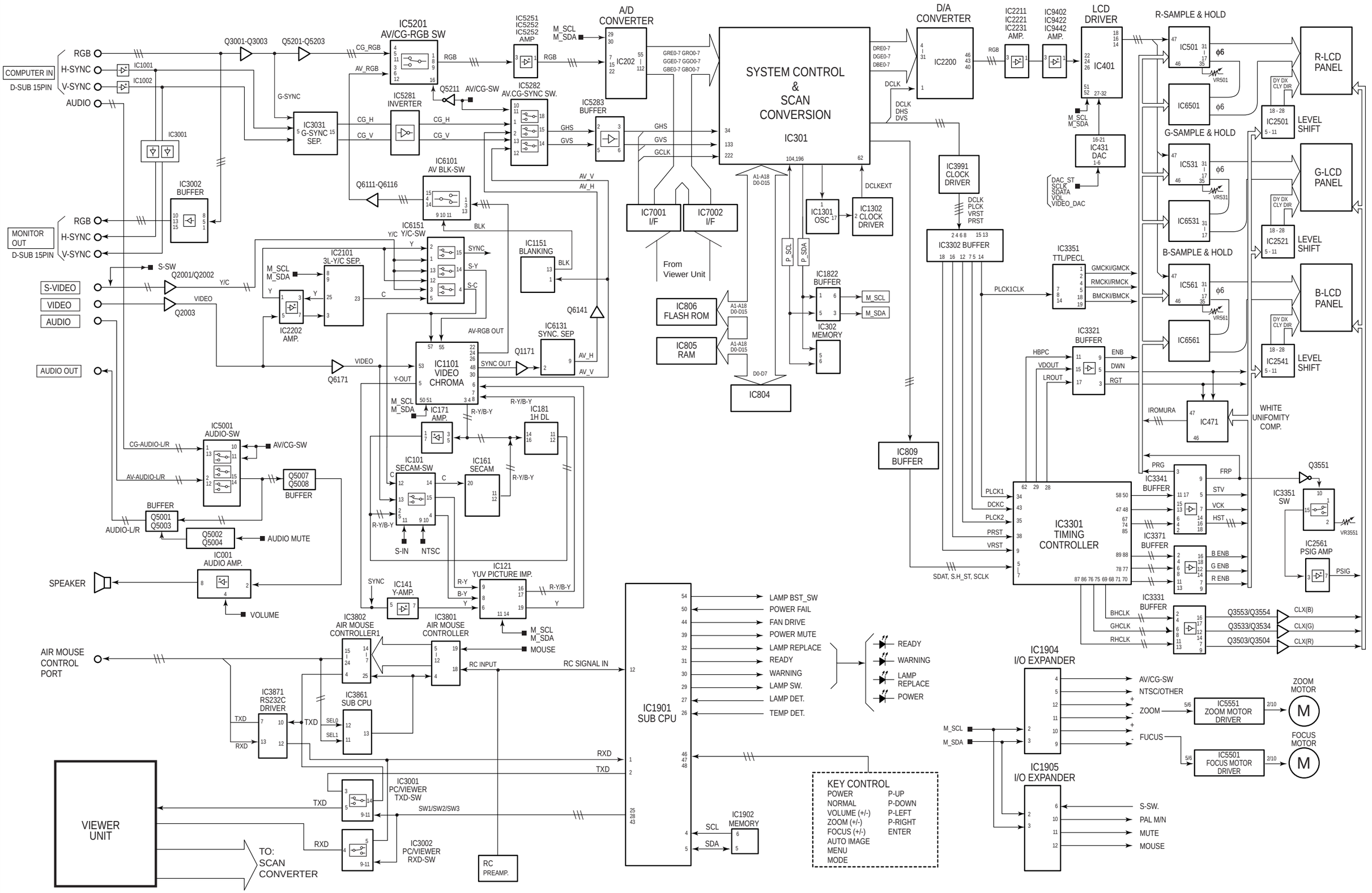
Key No.	Part No.	Description
OPTICAL PARTS		
55	645 035 5950	ASSY,LENS,PROJECTION (Including Key No. 56)
56	645 030 7959	MOTOR,LENS(Z,F) DC 0.2W
57	645 040 6638	ASSY,PRISM A MA6A
58	645 037 5538	ASSY,PRISM(PBS)
59	645 037 4654	LENS,INTEGRATOR(OUT)
60	645 037 4661	LENS,INTEGRATOR(IN)
61	645 037 5569	LENS,RELAY(IN)
62	645 037 5576	LENS,RELAY(OUT)
63	645 037 5583	LENS,CONDENSER(IN)
64	645 037 5590	LENS,CONDENSER(OUT)
65	645 037 5606	LENS,CONDENSER
66	645 037 5613	LENS,CONDENSER(B)
67	610 284 8892	MIRROR(W-COLD)
68	610 284 8908	MIRROR(R)
69	610 284 8915	MIRROR(B)
70	645 037 5637	OPTICAL FILTER(UV CUT)
71	645 036 6635	POLARIZED GRASS(R-FIL)
72	645 039 7387	POLARIZED GRASS(IN/G)SA
73	645 039 7394	POLARIZED GRASS(IN/B)SA
74	610 284 8922	DICHROIC MIRROR (R)AST
75	610 284 8939	DICHROIC MIRROR (G)

CAUTION:
Part must be placed in specified direction when replacing the optical parts. Please see “Optical Parts Disassemblies” for further instructions.

SANYO Electric Co., Ltd.

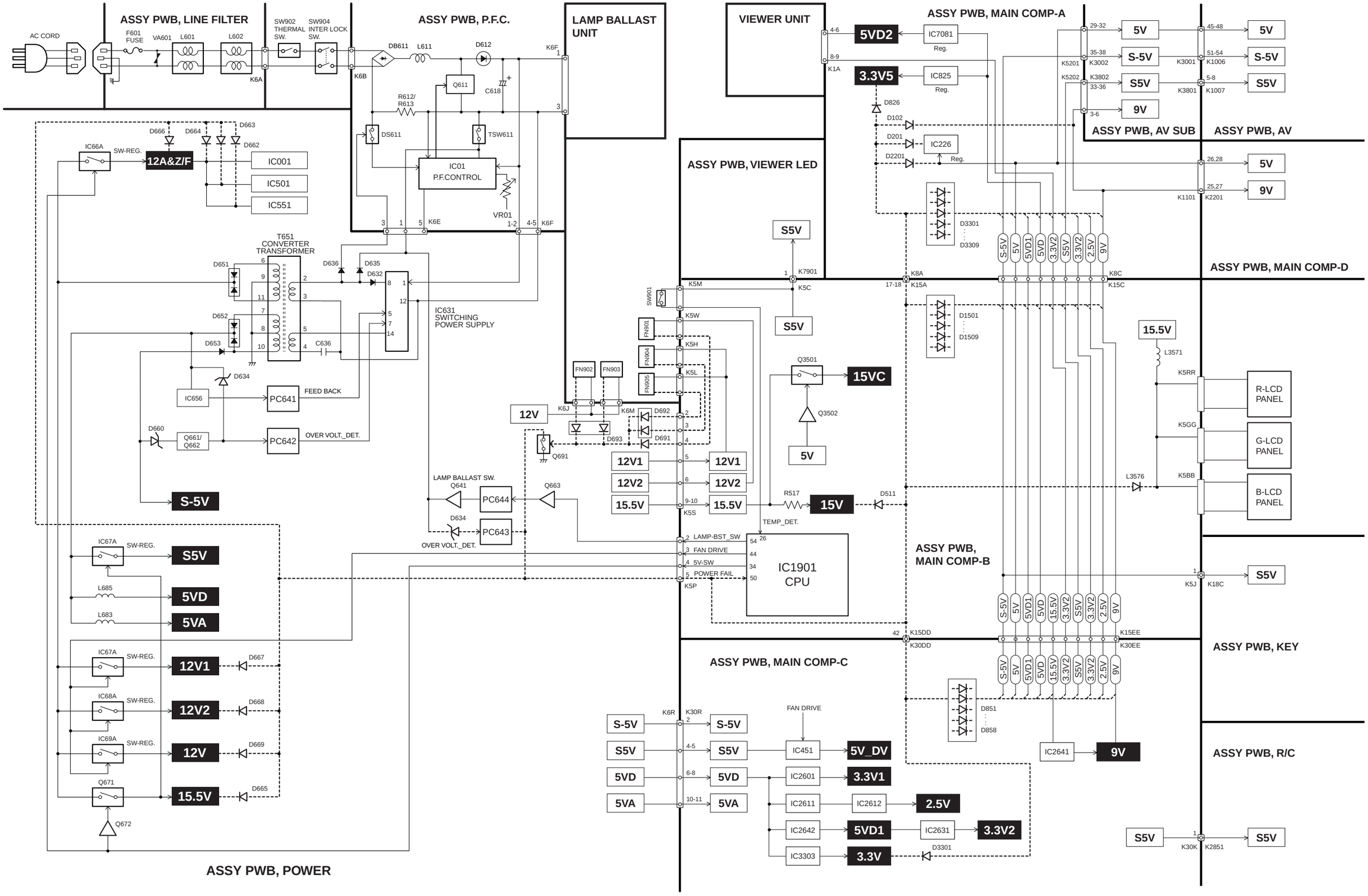
Mar./2000/ 1300 SI Printed in Japan

■ Circuit Block Diagram (PLC-XU20E/XU22E/XU20B/XU22B)



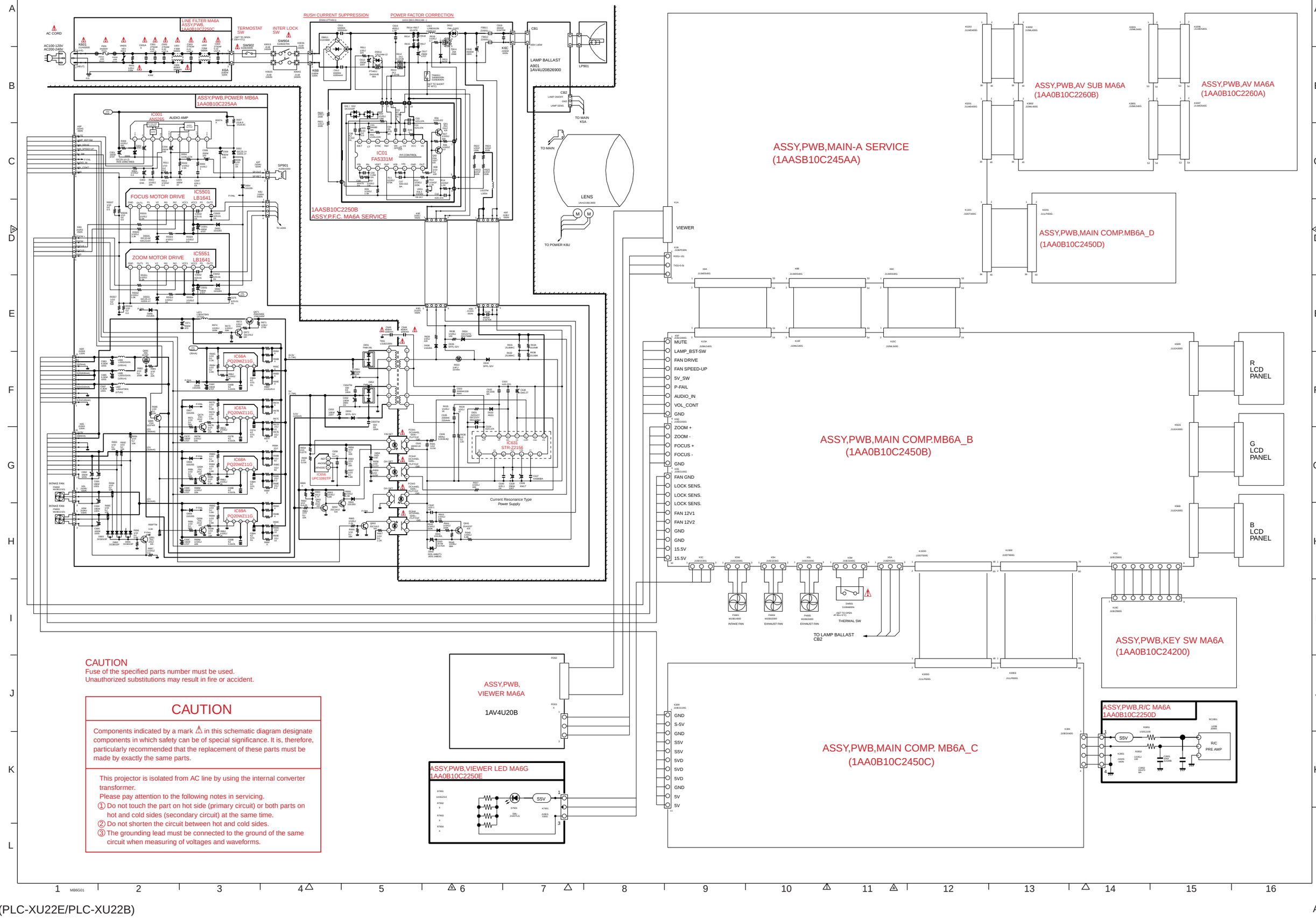
A1

■ Power Supply Lines (PLC-XU20E/XU22E/XU20B/XU22B)



A2

■ Schematic Diagrams PLC-XU22E/PLC-XU22B



CAUTION

Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

CAUTION

Components indicated by a mark ⚠ in this schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

This projector is isolated from AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing.

① Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
② Do not shorten the circuit between hot and cold sides.
③ The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

ASSY,PWB,AV MA6A
1AA0B10C2260A

CG-R
CG-G
CG-B
CG-H
CG-V
S-Y
S-C
VIDEO
AV-R
AV-L
CG-R
CG-L

IC1001
AD8057ART
IC1002
AD8057ART

CG MONITOR OUT

IC3001
TC74ACT14FT

IC3002
LT1399CS

RGB-MONITOR-OUT

B G R

IC3031
CXA2016S

SYNC SEP

CG-V
CG-H

VIDEO
Y
C

MAIN COMP-A
"K5201"

AUDIO

MAIN COMP-A
"K5202"

IC5001
TC4053BF-TP1

AUDIO-SW

IC3871
HIN232CB;
SP232ACT

RS232C DRIVER

IC3861
TMP47C101M-JV45

SUB CPU

IC3862
MIN3182-Q
-TX

IC3801
TWM7000-162020

IC3841
TMW7000-151020

AIR MOUSE CONTROLLER-1

AIR MOUSE CONTROLLER-2

CG1
L/R-IN

CG/AV
L/R-OUT

PC L
L OUT
R OUT

TO CHASSIS EARTH

ENTER
MENU

MAIN
COMP-B
"K5J"

1AA0B10C2260B
ASSY PWB,AV SUB MA6A

MB6A02

A4

(PLC-XU22E/PLC-XU22B)

AV SUB BOARD "K3802"

TXD/RXD-SW

IC3001 MC14053BFL :TC4053BF

IC3002 MC14053BFL :TC4053BF

VIEWER UNIT

VIEWER UNIT

IC7081 L88MS05T-TL

IC7001 TC74VCX1624FFT

VIEWER I/F

IC302 (SCAN CONVERTER)

IC7002 TC74VCX1624FFT

IC5290 TC74LCX74FT-(EL)

CG-H

CG-V

TP5281

IC5381 MC74VHC14DT :SN74LV14APWR

TP5282

AV/CG SYNC-SW

IC5282 MC14053BFL :TC4053BF-TP1

AV-H

AV-V

IC5283 SN74LVC126APWR

FROM: IC6131 (SYNC SEP)

TP8253

TP8254

TP8255

TP8256

R

G

B

TO: IC302

V-SYNC

H-SYNC

IC202 AD9884AKS-140

A/D CONVERTER

TO: IC301 (SCAN CONVERTER)

AV/CG RGB-SW

IC5201 EL4332CS

TP211

TP212

TP213

TP215

TP217

TP218

CG-R

CG-G

CG-B

AV-R

AV-G

AV-B

IC5251 AD8055ART

IC5252 AD8055ART

IC5253 AD8055ART

TP221R

TP221G

TP221B

FROM: IC6101 (VIDEO BLANKING)

AV SUB BOARD "K3002"

MAIN COMP-A

(PLC-XU22E/PLC-XU22B)

A5

MAIN COMP-B
"K15A"

MAIN COMP-B
"K15F"

MAIN COMP-B
"K15C"

FLASH
ROM

IC806
MBM29LV800TA90NB616S
MBM29LV800TA90NB616

RAM

IC805
IDT71V016S15PHTR

IC804
M66230FP-200D

IC825

PSDA
PSCL

IC302
24LC16BT/SN

M-SCL
M-SDA

IC1822
TC7WT241FU
(TE12L)

IC1821
TC74LCX125FT(EL)

IC808
TC7WT125FU,TE12L

IC809
MC74HCT244ADT
HD74HCT244TV
SN74HCT244PWR

BUFFER

A/D CONVERTER
&
VIEWER
UNIT

<TOP_VIEW>
IC301
PW264
SCAN
CONVERTER
&
STYLE CONTROL
COMPRESS
EXPAND

IC331
ER-ICS502MT

IC1301
AV9155C
PLL

IC1302
MPC948FA
CLOCK
DRIVER

IC2200
MB40988PFQ-G-MSBND
D/A
CONVERTER

IC2211
AD8055ART

IC2221
AD8055ART

IC2231
AD8055ART

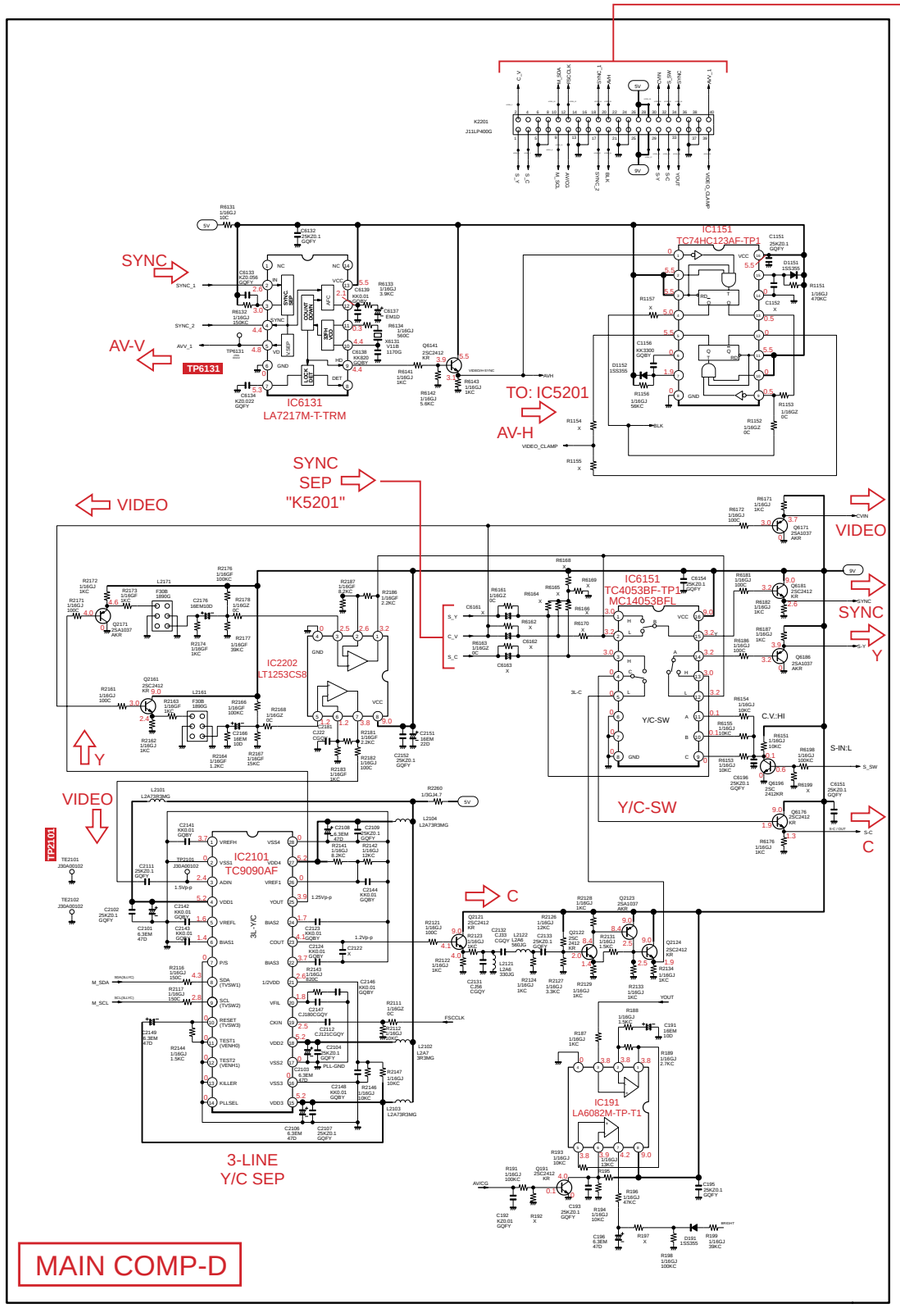
IC805
IC806
(ROM/ RAM)

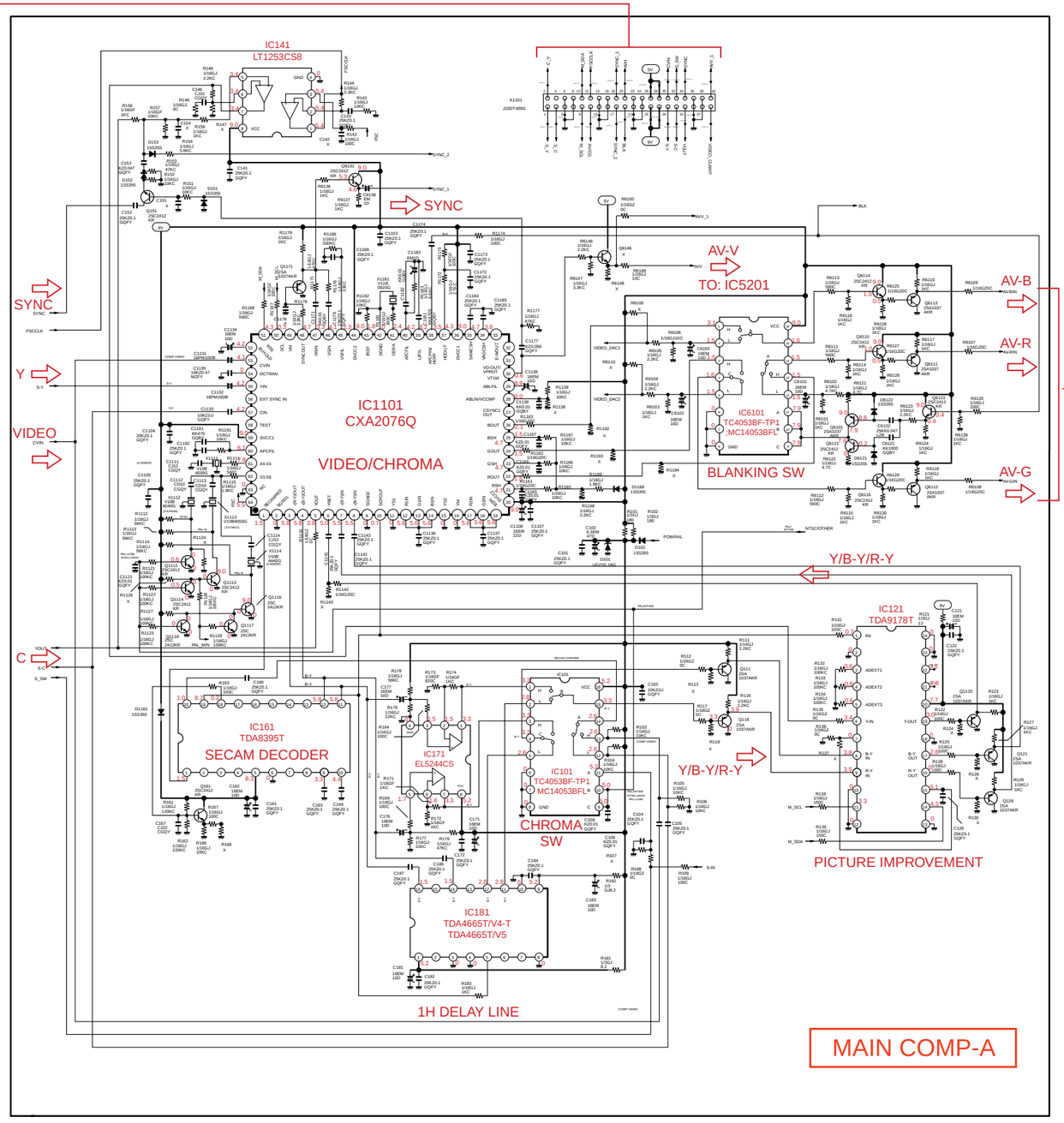
TO: IC401
(LCD DRIVER)

MAIN COMP-A

(PLC-XU22E/PLC-XU22B)

A6


SYNC
AV-V
TP6131
IC6131
LA7217M-T-TRM
TO: IC5201
AV-H
IC1151
TC74HC123AF-TP1
SYNC
SEP
"K5201"
VIDEO
IC6151
TC4053BF-TP1
MC14053BFL
IC2202
LT1253CS8
Y
VIDEO
IC2101
TC9090AF
3-LINE
Y/C SEP
C
Y/C-SW
IC191
LA6082M-TP-T1
MAIN COMP-D


IC141
LT1253CS8
SYNC
Y
VIDEO
C
IC1101
CXA2076Q
VIDEO/CHROMA
IC161
TDA8395T
SECAM DECODER
IC181
TDA4665T/V4-T
TDA4665T/V5
1H DELAY LINE
IC171
EL5244CS
IC101
TC4053BF-TP1
MC14053BFL
CHROMA
SW
AV-V
TO: IC5201
IC6101
TC4053BF-TP1
MC14053BFL
BLANKING SW
AV-B
AV-R
AV-G
TO: IC5201
Y/B-Y/R-Y
IC121
TDA9178T
Y/B-Y/R-Y
PICTURE IMPROVEMENT
MAIN COMP-A

MAIN COMP-B "K15DD"

MAIN COMP-B "K15EE"

POWER BOARD "K6R"

RC BOARD

IC3301 LC24106A-PC7

TIMING CONTROLLER

IC3302 HD74LVC244AT

IC3303 BA033FP-E2

IC3321 SN74HCT244PWR

IC3331 MC74ACT244DT HD74ACT244TELL SN74ACT244PWR

IC3341 MC74HCT244ADT HD74HCT244TV SN74HCT244PWR

IC3371 MC74ACT244DT HD74ACT244TELL SN74ACT244PWR

IC3381 MC74ACT04DT TC74AC04FT SN74LV04APWR

IC3391 EPM7032AFLC44-10

CLOCK DRIVER

DHS DVS DCLK

WHITE UNIFORMITY COMPENSATION IC471 CXD3503R

IC472 L88MS05T-TL

IC2601 BA033FP-E2

IC2611 BA033FP-E2

IC2612 PQ2TZ15

IC2631 BA033FP-E2

IC2642 L88MS05T-TL

IC2641 L78M09T-TR

IC431 M62356FP

DAC (PICTURE CONTROL)

IC451 L88MS05T-TL

IC401 CXA2111R

LCD DRIVER

R
G
B

TO: IC501 IC531 IC561 (S/H)

MAIN COMP-C

A8

(PLC-XU22E/PLC-XU22B)

I/O EXPANDER

IC1904
M62320FP

IC1905
M62320FP

MAIN
COMP-C
"K30DD"

MAIN
COMP-C
"K30EE"

I/O EXPANDER

IC1902
24LC256T-I/SN

IC1906
MN1382-Q-T-X

MEMORY

IC903
TC7S08F-TE85L

RESET

IC1901
M30201M4-114FP

SUB
CPU

TO:IC401
(LCD DRIVER)

FROM: IC2200
(D/A CONVERTER)

FAN

POWER
BOARD
"K65"

FN905

FN904

FN901

LAMP BALLAST
UNIT

VIEWER
LED BOARD

POWER BOARD
"K6P"

POWER BOARD
"K6Q"

MAIN
COMP-A "K8A"

SW901
(THERMO SW)

KEY SW
BOARD
"K18C"

MAIN
COMP-A
"K8F"

MAIN
COMP-A
"K8C"

TTL-ECL
LEVEL SHIFT

R

TP501

IC501
CXA2112RM

R-SAMPLE
& HOLD

IC6501
CXA2112R

R-SAMPLE
& HOLD

R-LEVEL
SHIFT

IC2501
LC4105V-TLM

R-LCD
PANEL

G

TP502

IC531
CXA2112R

G-SAMPLE
& HOLD

IC6531
CXA2112RM

G-SAMPLE
& HOLD

G-LEVEL
SHIFT

IC2521
LC4105V-TLM

G-LCD
PANEL

B

TP503

IC561
CXA2112R

B-SAMPLE
& HOLD

IC6561
CXA2112RM

B-SAMPLE
& HOLD

B-LEVEL
SHIFT

IC2541
LC4105V-TLM

B-LCD
PANEL

IC2561
LC4105V-TLM

IC3351
MC14053BFL

NRS
DRIVER

MAIN COMP-B

TP511

TP512

TP513

TP2571

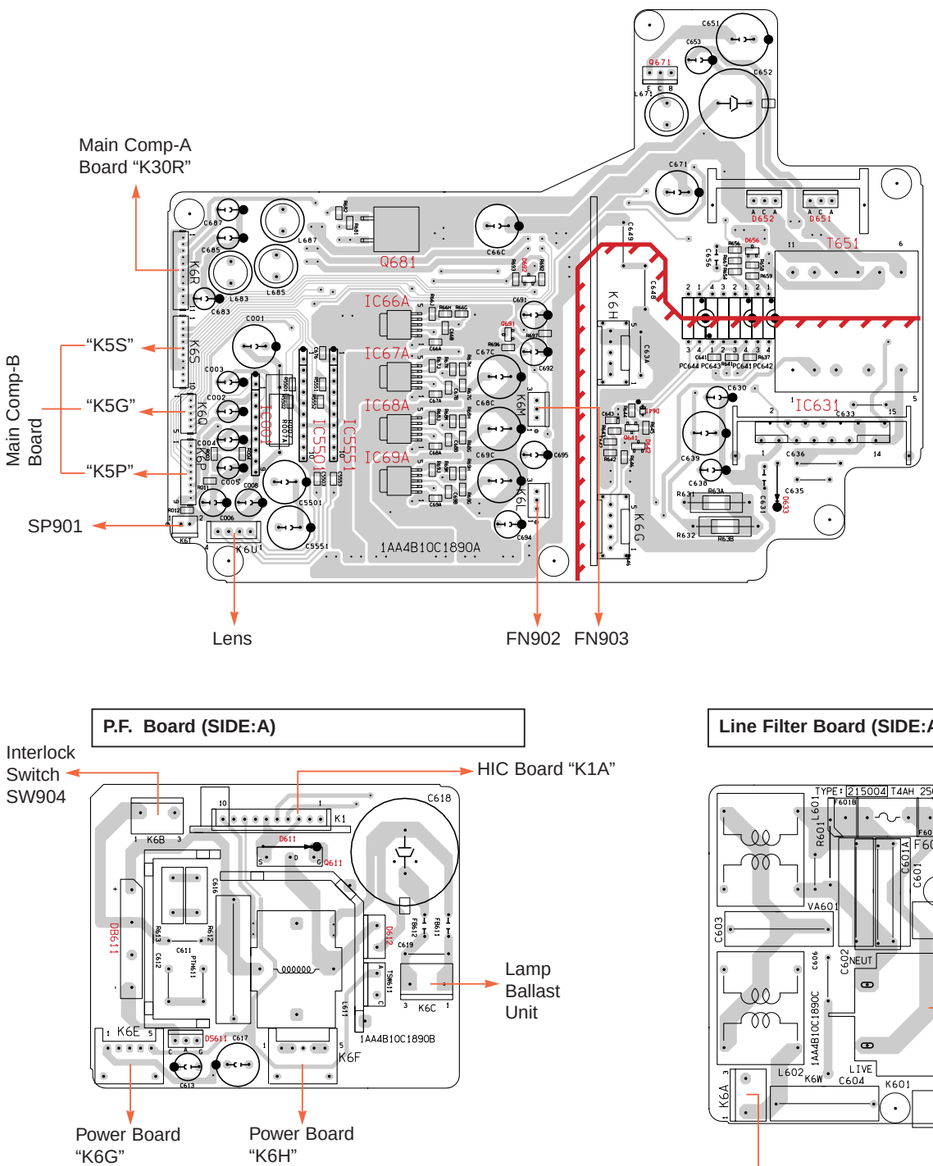
■ Printed Wiring Board Diagrams (PLC-XU20E/XU22E/XU20B/XU22B)

⚠ CAUTION

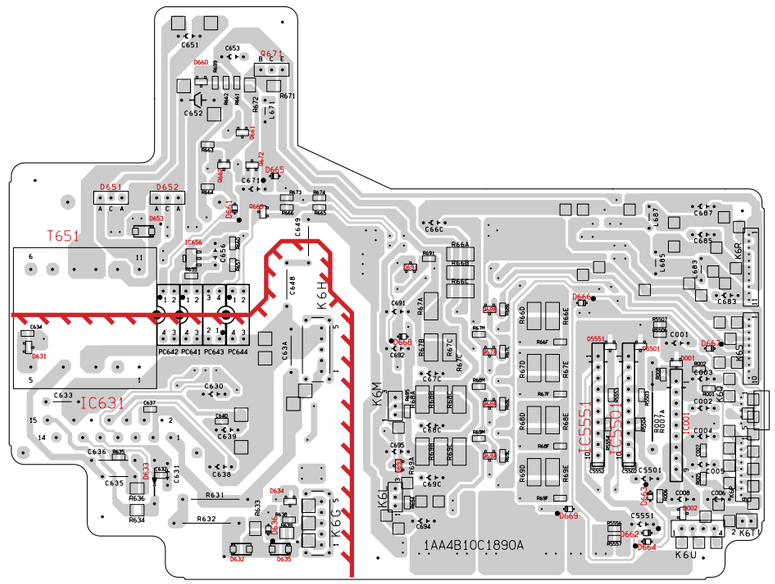
This projector is isolated from AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing

1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

Power Board (SIDE:A)

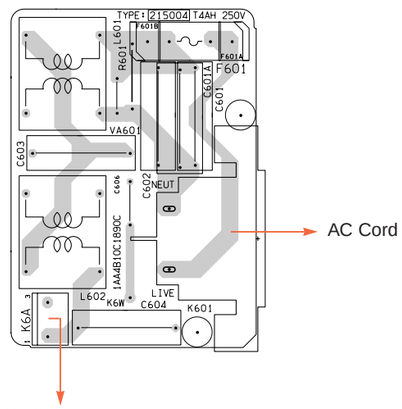


Power Board (SIDE:B)

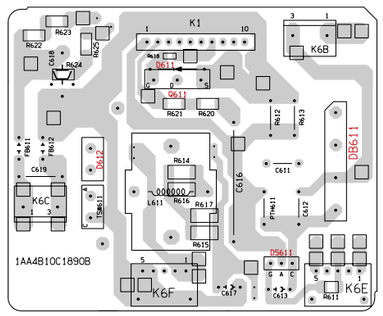


P.F. Board (SIDE:A)

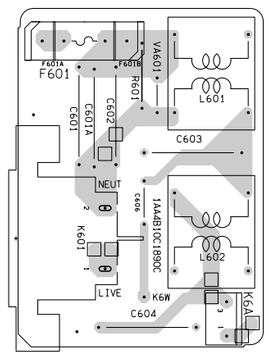
Line Filter Board (SIDE:A)



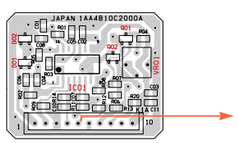
P.F. Board (SIDE:B)



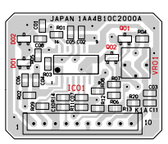
Line Filter Board (SIDE:B)



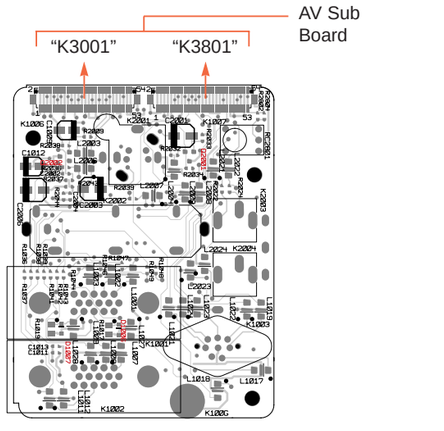
HIC Board (SIDE:A)



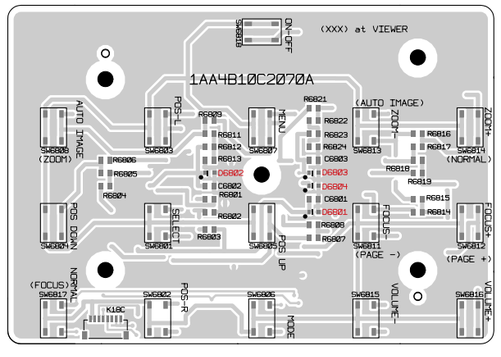
HIC Board (SIDE:B)



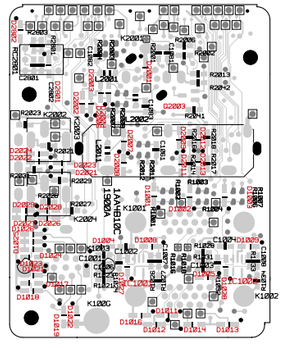
AV Board (SIDE:A)



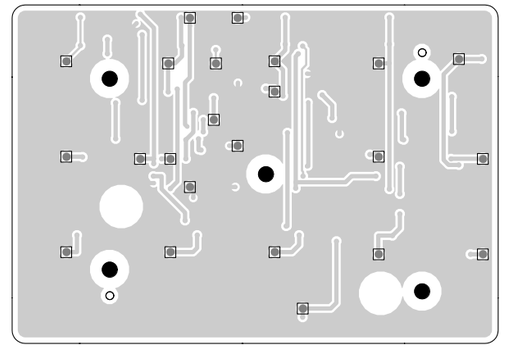
Key Board (SIDE:A)



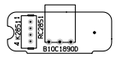
AV Board (SIDE:B)



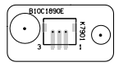
Key Board (SIDE:B)



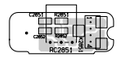
RC Board (SIDE:A)



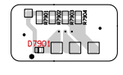
Viewer Led Board (SIDE:A)



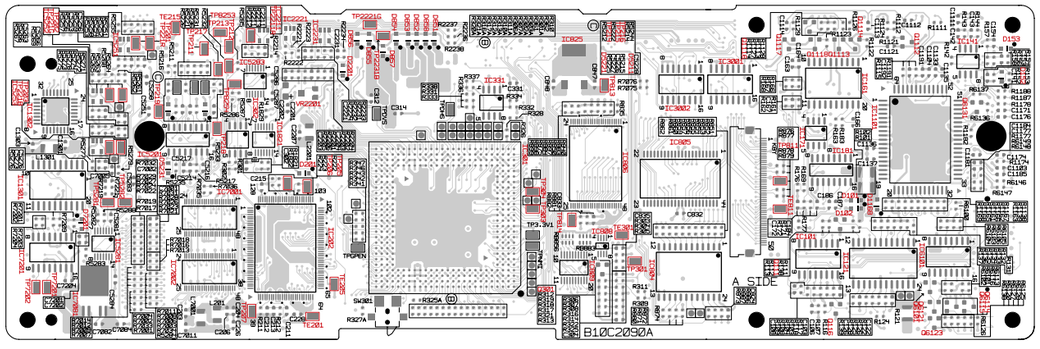
RC Board (SIDE:B)



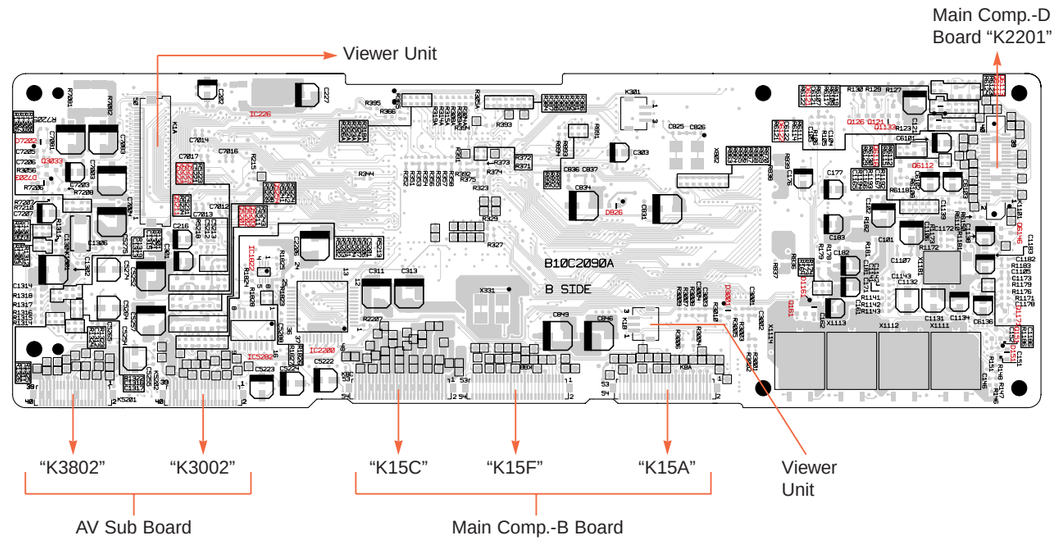
Viewer Led Board (SIDE:B)



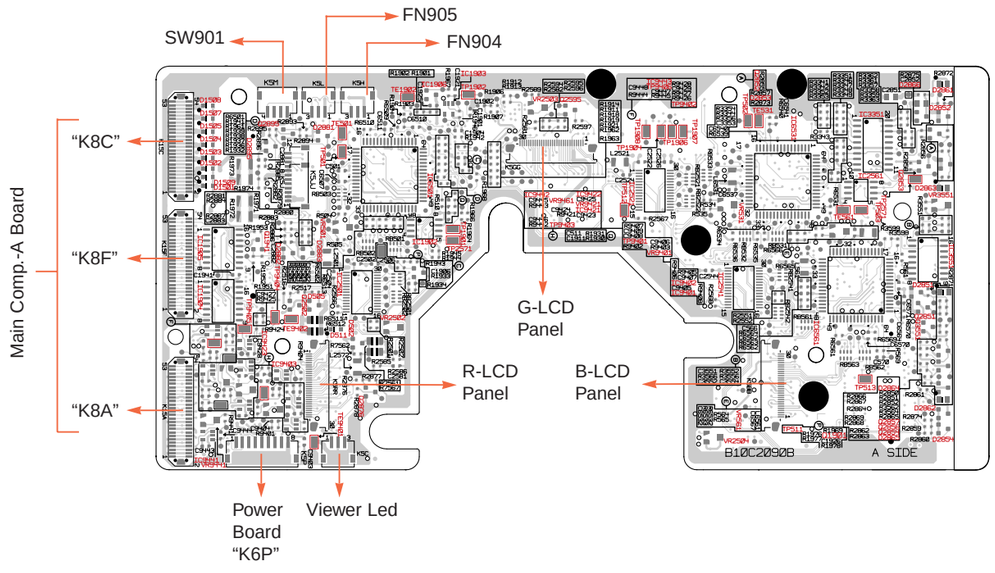
Main Comp.-A Board (SIDE:A)



Main Comp.-A Board (SIDE:A)



Main Comp.-B Board (SIDE:A)



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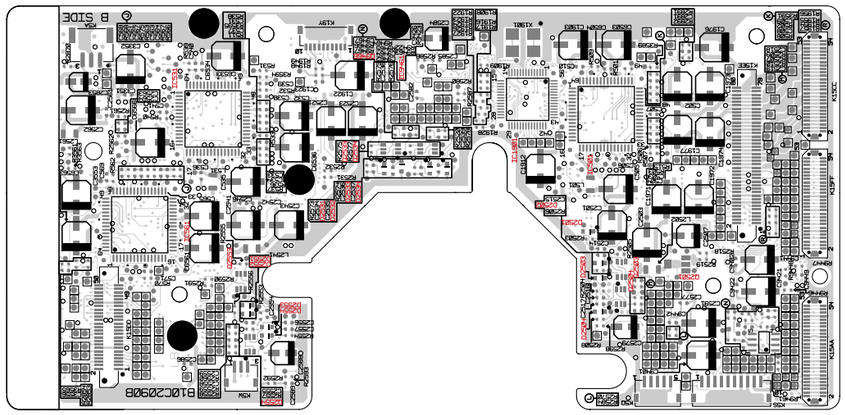
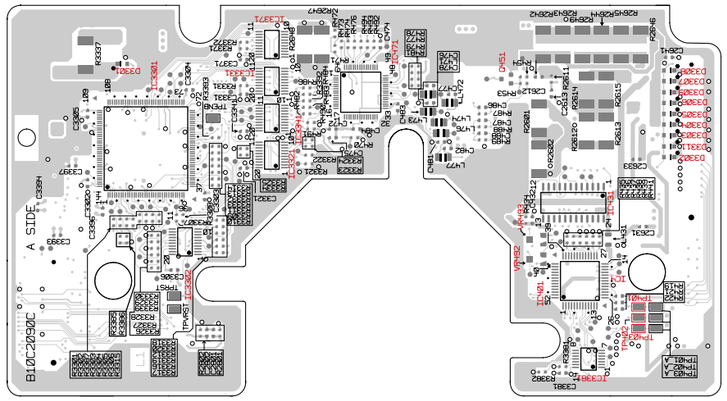
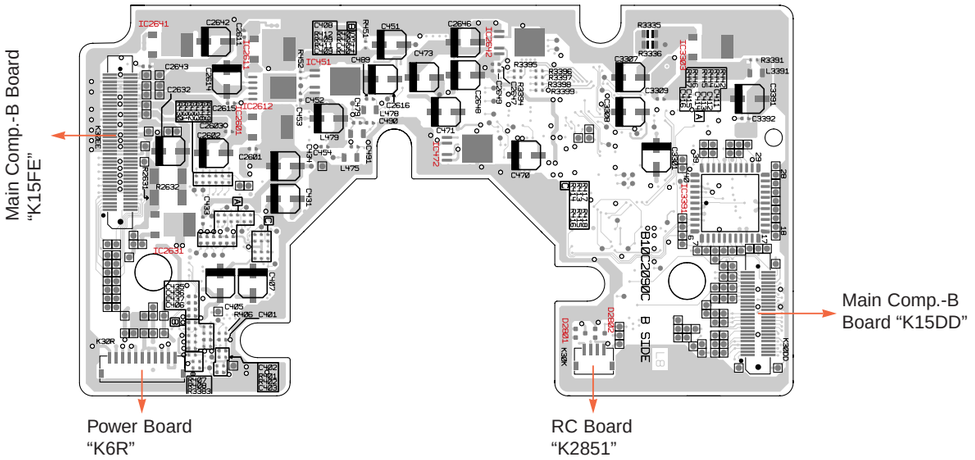


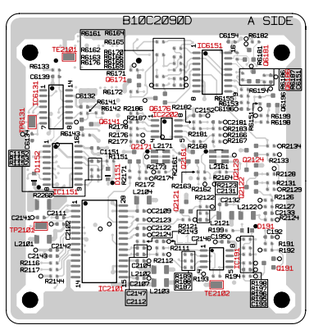
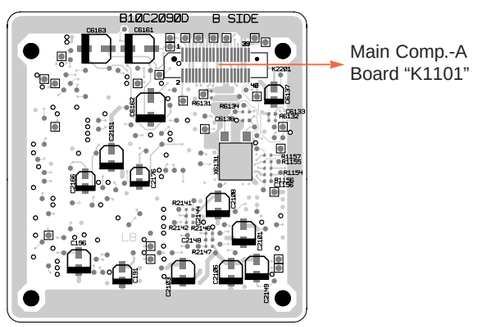
Main Comp.-C Board (SIDE:A)



Main Comp.-C Board (SIDE:B)



Main Comp.-D Board (SIDE:A)



Main Comp.-D Board (SIDE:B)